

An abstract graphic design featuring three concentric green circles of varying sizes. The largest circle is at the top right, a medium-sized one is in the center right, and the smallest one is at the bottom right. Two thin green lines intersect at the center of the medium circle, extending towards the top left and bottom right corners of the page.

# **Implementation Guide EHF Catalogue**

**Version: 1.0**

**Date: 25. September 2013**

## TABLE OF CONTENT

|       |  |    |
|-------|--|----|
| 1     | Introduction .....   | 4  |
| 1.1   | Background and Objective .....                                     | 4  |
| 1.2   | Target group .....   | 4  |
| 1.3   | Document structure .....   | 5  |
| 1.4   | About the document .....   | 5  |
| 2     | Document history .....   | 6  |
| 3     | EHF – Elektronisk handelsformat (electronic commerce format) ..... | 7  |
| 3.1   | About EHF.....   | 7  |
| 3.2   | Information Consistency .....                                      | 7  |
| 3.3   | Message transport .....  | 7  |
| 3.4   | Message level response .....                                       | 8  |
| 3.5   | Profiles and messages .....  | 8  |
| 3.6   | Use of collaboration agreements .....                              | 9  |
| 3.7   | Versioning.....  | 10 |
| 3.7.1 | Main version .....   | 10 |
| 3.7.2 | Sub version .....  | 10 |
| 3.7.3 | Revision.....  | 10 |
| 4     | Definitions.....   | 11 |
| 5     | Catalogue process and business requirements .....                  | 12 |
| 5.1   | About the Catalogue messages .....                                 | 12 |
| 5.2   | Functionality and Roles .....                                      | 12 |
| 5.3   | Profiles and messages .....  | 13 |
| 5.3.1 | ProfileID .....  | 13 |
| 5.4   | Catalogue process .....  | 13 |
| 6     | Description of selected elements of EHF Catalogue .....            | 15 |
| 6.1   | Roles and Actors.....  | 15 |
| 6.2   | Action code.....   | 16 |
| 6.3   | Product Identification.....  | 17 |
| 6.4   | Product Name and Description .....                                 | 17 |
| 6.5   | Keyword.....   | 18 |
| 6.6   | Quantities and units .....   | 19 |
| 6.7   | Prices .....   | 21 |
| 6.8   | Related Products and Accessories.....                              | 22 |
| 6.9   | Product Classification .....                                       | 23 |
| 6.10  | Hazardous Item .....   | 23 |
| 6.11  | VAT .....  | 24 |
| 6.12  | Attachments .....  | 24 |
| 6.13  | Logistics Information .....  | 25 |
| 6.14  | Environment, Social responsibility and ecological .....            | 26 |
| 6.15  | Dimension (height, width etc.).....                                | 27 |
| 6.16  | Replacement product.....   | 28 |
| 6.17  | Additional Item properties .....                                   | 28 |
| 7     | Information content .....  | 30 |
| 7.1   | Information content Catalogue .....                                | 31 |
| 7.2   | Information content Catalogue Response .....                       | 42 |
| 8     | Validation.....  | 44 |
| 8.1   | Validation principles .....  | 44 |
| 8.2   | Dynamic validation .....   | 45 |

|       |   |    |
|-------|---|----|
| 8.3   | Validation rules per ProfileID and CustomizationID..... | 46 |
| 8.3.1 | ProfileID BII01, catalogue .....                        | 46 |
| 8.4   | Validation rules.....                                   | 47 |
| 8.4.1 | Catalogue.....  | 47 |
| 8.4.2 | Catalogue Response .....                                | 51 |
| 9     | Attachments .....                                       | 52 |
| 9.1   | Attachment 1 – Structure tables .....                   | 52 |
| 9.2   | Attachment 2 – Message tables .....                     | 52 |
| 9.3   | Attachment 3 – Code lists .....                         | 52 |
| 9.4   | Attachment 4 - UBL 2.1 Schema.....                      | 52 |
| 9.5   | Attachment 5 – Schematron files.....                    | 52 |
| 9.6   | Attachment 6 – Example files.....                       | 52 |

## 1 INTRODUCTION

This document describes the EHF Catalogue format to be used for the exchange of Catalogue information between trading partners. The document is part of Difi's (Direktoratet for Forvaltning og IKT) standardization work related to electronic commerce.

### 1.1 BACKGROUND AND OBJECTIVE

The Norwegian government has played an active role in the dissemination of electronic commerce both in domestic and foreign trade. The government white paper labeled "St.Meld. nr. 36 (2008-2009) Det gode innkjøp" (The good procurement), states among other things:

«It's the Government's opinion that increased use of electronic solutions is important to improve and increase the efficiency of public procurement. The use of electronic solutions may reduce time spent on public procurement, increase the competition and arrange for purchases to be more transparent and easier to re-examine. By spending less time and money on procurement, resources will be available for both modernizing the public sector and more welfare. The goal for introducing electronic solutions is to contribute to a better, simpler and more secure procurement. »

The «Ministry of Government Administration, Reform and Church Affairs» (FAD) considers use of open standards as a vital means to build a well-functioning public administration, with good internal collaboration and a high level of service for both inhabitants and businesses.

#### Definition of Open Standard:

*An Open Standard is a standard that is recognized and will be maintained by a non-profit organization. Development and changes to the standard is based on processes that are open to all parties having interest in the standard. The Standard is made available for free or for a small charge. This must include the right to copy, distribute and use the standard. The specification of the standard must be implemented on a royalty-free basis and with no patent protection. There are no restrictions related to re-use of the standard.*<sup>1</sup>

**The purpose** of this document is to describe a common format for the exchange of Catalogue information in the Norwegian market and to arrange for an effective implementation of Catalogue messages based on this format.

This Implementation Guide covers the exchange of Catalogues in a post-award process, after a commercial agreement has been signed between the Supplier and Buyer.

### 1.2 TARGET GROUP

The target group for this Implementation Guide (hereafter called IG) is both technical and non-technical personnel involved in the exchange of catalogue messages. The IG may also be used by system providers and message brokers.

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<sup>1</sup> [http://no.wikipedia.org/wiki/%C3%85pen\\_standard](http://no.wikipedia.org/wiki/%C3%85pen_standard)

- Chapter 1 to 5 are directed to non-technical personnel
- Chapter 6 to 9 (attachments) are directed to technical personnel

### 1.3 DOCUMENT STRUCTURE

The document consists of the following parts:

- Chapter 1 outlines the background and objective for the document.
- Chapter 2 contains document history.
- Chapter 3 describes the principles and conditions for EHF.
- Chapter 4 contains definitions.
- Chapter 5 describes the ordering process.
- Chapter 6 describes selected parts of the formats.
- Chapter 7 contains the information contents of the messages.
- Chapter 8 describes the validation of the messages.
- Chapter 9 contains the following references to separate documents:
  - Appendix 1: Message structure (branching tree)
  - Appendix 2: Message description
  - Appendix 3: Code lists
  - Appendix 4: Link to UBL 2.1 Schema for Catalogue and Catalogue Response
  - Appendix 5: Schematron files
  - Appendix 6: XML Example files

### 1.4 ABOUT THE DOCUMENT

Implementation Guide EHF Catalogue version 1.0 is compliant with CEN BII2 and Peppol BIS 1A Catalogue version 2.0.

## 2 DOCUMENT HISTORY

| Version | Comment  | Author            | Approved by | Date       |
|---------|----------|-------------------|-------------|------------|
| 1.0     | Approved | Edisys Consulting | Difi        | 2013-09-25 |

### 3 EHF – ELEKTRONISK HANDELSFORMAT (ELECTRONIC COMMERCE FORMAT)

#### 3.1 ABOUT EHF

EHF is an anagram of the Norwegian expression «Elektronisk handelsformat» (Electronic Commerce Format).

EHF is based on the work performed by CEN BII<sup>2</sup>. This is further adjusted to comply with the Norwegian accounting regulations and current practices for the different business processes in the Norwegian market. Difi pursues the goal to cover the full trading process using EHF documents, both before and after the signing of a contract.

Documents, from the tender catalogue to the credit note will be gathered under the EHF umbrella. During 2013 Difi will prepare for the use of EHF formats in what is known as the post award process, i.e. the part of the business process that starts when a supplier and a customer have signed a contract.

By using the EHF documents the collaboration between the supplier and the customer will be predictable. Elements from the tender Catalogue will be re-used in the Order, and elements from the Order will be re-used in the Invoice. This leads to a holistic use of all the documents under the EHF umbrella.

Difi has chosen to use CEN BII<sup>3</sup> as a base for the EHF formats and the Universal Business Language (UBL)<sup>4</sup> as a foundation for the implemented syntax. Both EHF and UBL are open standards and as such not liable to any licensing fees or royalties.

EHF is managed and maintained by Difi.

#### 3.2 INFORMATION CONSISTENCY

The different EHF formats mentioned above contain a number of common information elements (supplier, customer, item etc.). It is important to preserve consistency in those common information elements, and that means that elements with identical content are declared in the same way and as far as possible given the same element tag name.

EHF invoicing formats will for instance re-use elements from the Catalogue and Order to ensure consistency between the messages and to make sure that the information from the business transactions are reflected in the invoicing documents. This makes it possible to implement an efficient and automated control of the invoice and the originating transactions.

#### 3.3 MESSAGE TRANSPORT

Open PEPPOL Transport Infrastructure will provide an efficient use and transport of the EHF formats.

---

<sup>2</sup> <http://www.cen.eu/cwa/bii/specs/>

<sup>3</sup> <http://www.cen.eu/cwa/bii/specs/>

<sup>4</sup> [http://www.oasis-open.org/committees/tc\\_home.php?wg\\_abbrev=ubl](http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=ubl)

The objective is to make it easy for parties in different countries to do cross-border trade. Experience shows that it is easy to implement electronic messaging in Norway, because most of the service providers use standard processes.

It must be noted that every document scheduled for this infrastructure must be validated with no errors by Difi's own validation service. This is likely to be done by the document issuer or by the service provider on behalf of the document issuer.

According to circular P-10/2012<sup>5</sup> FAD recommends all central government agencies to use this transport infrastructure.

### 3.4 MESSAGE LEVEL RESPONSE

The response message (Message Level Response) is an optional response message that the receiver of an electronic message, like an EHF Invoice, may use to:

- a) Acknowledge the reception of a message and/or
- b) Report any validation discrepancies in the received message.

The response message should be perceived as a technical response message being exchanged between the two parties' messaging systems and used in addition to any other business oriented response messages described in the different profiles.

The response message will be documented in a separate EHF implementation guide scheduled to be published within first half of 2013.

The ability to receive a response message must be registered in ELMA along with every other electronic message.

### 3.5 PROFILES AND MESSAGES

In line with the underlying methodology for the EHF formats (cf. [www.cenbii.eu](http://www.cenbii.eu)) the electronic messages included in a specific format will be exchanged between the parties as a part of an electronic collaboration process; a profile.

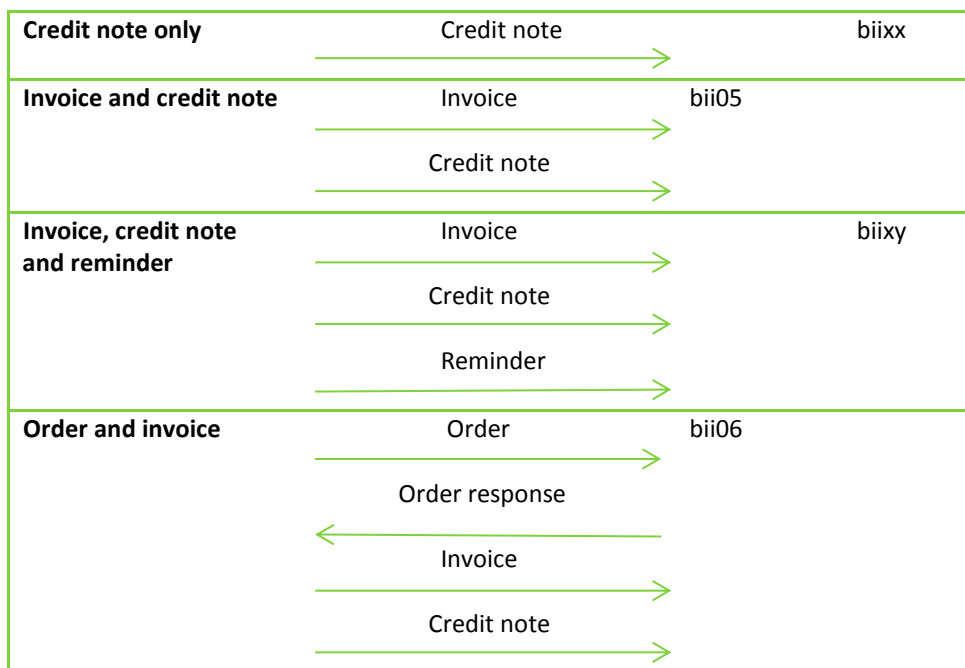
CEN BII has defined a profile as "A specification of how one or more business processes are executed by specifying the business rules governing its business collaborations and the information content (data model) of the electronic business transactions exchanged."

To the largest extent the EHF is using profiles prepared by BII (ref [www.cenbii.eu](http://www.cenbii.eu)) or PEPPOL (cf. [www.peppol.eu](http://www.peppol.eu)). Examples of relevant profiles are:

| Interaction process | Messages | BII/PEPPOL<br>ProfileID | EHF<br>ProfileID |
|---------------------|----------|-------------------------|------------------|
| Invoice only        | Invoice  | bii04                   |                  |

<sup>5</sup> <http://www.regjeringen.no/nb/dep/fad/dok/rundskriv/2012/digitaliseringsrundskrivet.html?id=706462>





The messages being exchanged within a profile are customized to comply with the requirements given for that particular business document. A CustomizationID is used to identify *the business rules that apply to the document in question, i.e. the whole set of business rules the document issuer founded the document on.*

The example CustomizationID below indicates that the contents of the current message is based on business rules determined by BII (urn:www.cenbii.eu:transaction:biicoretrdm010:ver1.0), customized and clarified by PEPPOL (urn:www.peppol.eu:bis:peppol5a:ver1.0) and further customized and clarified in this implementation guide regarding the Norwegian businesses (urn:www.difi.no:ehf:faktura:ver1).

```
<cbc:CustomizationID>urn:www.cenbii.eu:transaction:biicoretrdm010:ver1.0:#urn:www.peppol.eu:bis:peppol5a:ver1.0#urn:www.difi.no:ehf:faktura:ver1</cbc:CustomizationID>
```

### 3.6 USE OF COLLABORATION AGREEMENTS

The combination of the ELMA registration and the implementation guides referred to in that context eliminates the need for any formal collaboration agreement between the sender and the receiver. The ELMA registration verifies that an actor has declared the ability and the commitment to receive business documents composed according to the specific implementation guide, and any party is free to send the business document to this actor.

Exchanging Catalogue and Order requires no registration in ELMA, and actors are advised to include the use of electronic messages in the purchase contract or to supply an collaboration

agreement<sup>6</sup> as an attachment, in order to link the electronic collaboration with the mercantile regulations and thus achieve a regularly revision of the electronic process.

### 3.7 VERSIONING

Difi claims the right to exchange the current format with a new one as and when needed. If so, Difi will inform the public via the web site and their registered users via e-mail.

Difi manages the formats in this way:

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#### 3.7.1 MAIN VERSION

A new main version will be announced at least 5 months prior to release. When a main version is released, there will be at least a 12 months implementation period before the new version is made mandatory.

Difi intends to relate every main version to the regulations concerning IT standards in the public sector.

---

#### 3.7.2 SUB VERSION

A new sub version will be announced at least 3 months prior to release and is made mandatory 5 months after release.

All sub versions must be backwards compatible. 2 months after the new sub version has become mandatory, the support (validation service and implementation guide) is ceased for preceding versions.

---

#### 3.7.3 REVISION

A revision is in principle a result of bug fixing the latest sub version, and will be announced at release time and should be implemented without further delay.

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<sup>6</sup> [DIFI's mal for Samhandlingsavtale](#) (Interaction agreement template)

## 4 DEFINITIONS

| Term                  | Description  |
|-----------------------|--|
| Catalogue             | A document describing the properties of products and services.   |
| Supplier              | A person or company delivering products or services.   |
| Buyer                 | A person or company buying a product or service at a set price.  |
| Catalogue provider    | A person or company collecting catalogue information and sending the catalogue.  |
| Catalogue receiver    | A person or company that is responsible for the reception of the catalogue.  |
| UBL                   | UBL (Universal Business Language) is a collection of XML-formats (XML Schema) for the exchange of electronic documents such as Catalogue, Order and Invoice.   |
| BII Core              | BII (Business Interoperability Interfaces) Core is a subset of UBL containing documents and content that is required for electronic collaboration in the European public sector.<br>Does not include separate XML Schemas. |
| Schematron validation | Validation of a message towards business requirements. Additional to the syntax check against XML Schema.  |

## 5 CATALOGUE PROCESS AND BUSINESS REQUIREMENTS

This chapter describes the catalogue process and functional requirements covered by EHF Catalogue. The description is based on the CEN BII profile BII01 Catalogue Only.

### 5.1 ABOUT THE CATALOGUE MESSAGES

The messages covered by this Implementation guide are EHF Catalogue and EHF Catalogue Response. Buyer and Seller must exchange both messages electronically to be in compliance with this guide.

An Electronic Catalogue is a listing of products and services to be used in a purchasing process. The EHF Catalogue can serve different purposes during the lifecycle of Catalogue information:

- Establish a new Catalogue
- Replace an existing Catalogue
- Add or delete Catalogue lines
- Update product properties or prizes on existing Catalogue lines

**When doing changes to catalogue lines, it is recommended to replace the whole catalogue and not update separate lines.**

A Catalogue containing sufficient information about articles and services will prevent faulty deliveries causing lost income for both suppliers and buyers.

Most often an Electronic Catalogue will be integrated with a Catalogue tool and a Search engine. The Search engines are set up differently providing possibility to search for different catalogue elements. The number of elements available will decide the preciseness of the search, and a well set up Search engine will in the end improve the quality of the purchase.

### 5.2 FUNCTIONALITY AND ROLES

This Implementation Guide covers exchange of catalogues in a post-award process, i.e. after the contract is signed between supplier and buyer. The content may also be used in a pre-award process (tendering), but with less mandatory elements.

The figure below shows the business functions and roles covered by EHF Catalogue.

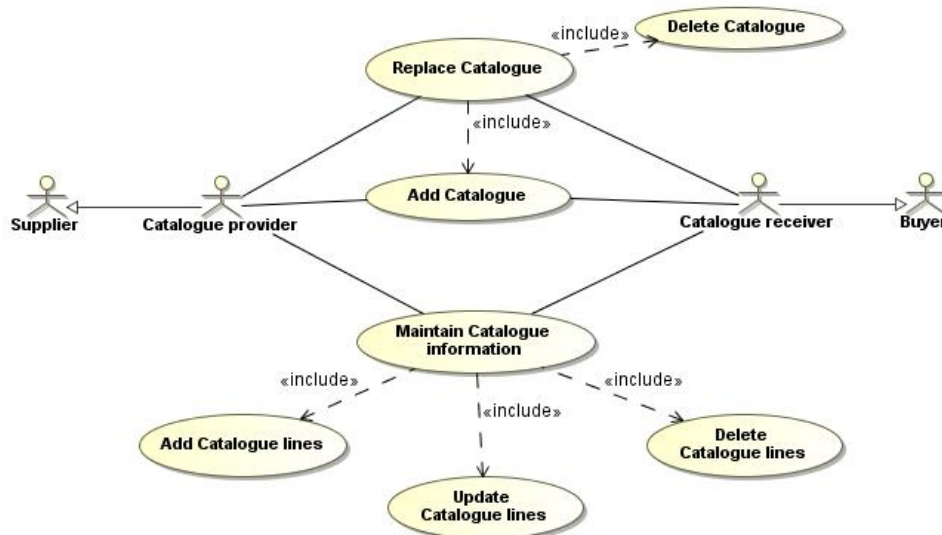


Figure 1: Functionality and roles

### 5.3 PROFILES AND MESSAGES

The definition of a profile is given in chapter 3.5.

The profile relevant to the EHF ordering process is shown in the table below:

| Interaction process | Messages           | BII/PEPPOL ProfileID | EHF ProfileID |
|---------------------|--------------------|----------------------|---------------|
| Catalogue process   | Catalogue          | BII01                |               |
|                     | Catalogue Response |                      |               |

#### 5.3.1 PROFILEID

The ProfileID identifies the process the business document is part of. EHF uses the identification system according to BII:

| Profile contents  | ProfileID                              |
|-------------------|--|
| Catalogue process | urn:www.cenbii.eu:profile:bii01:ver2.0 |

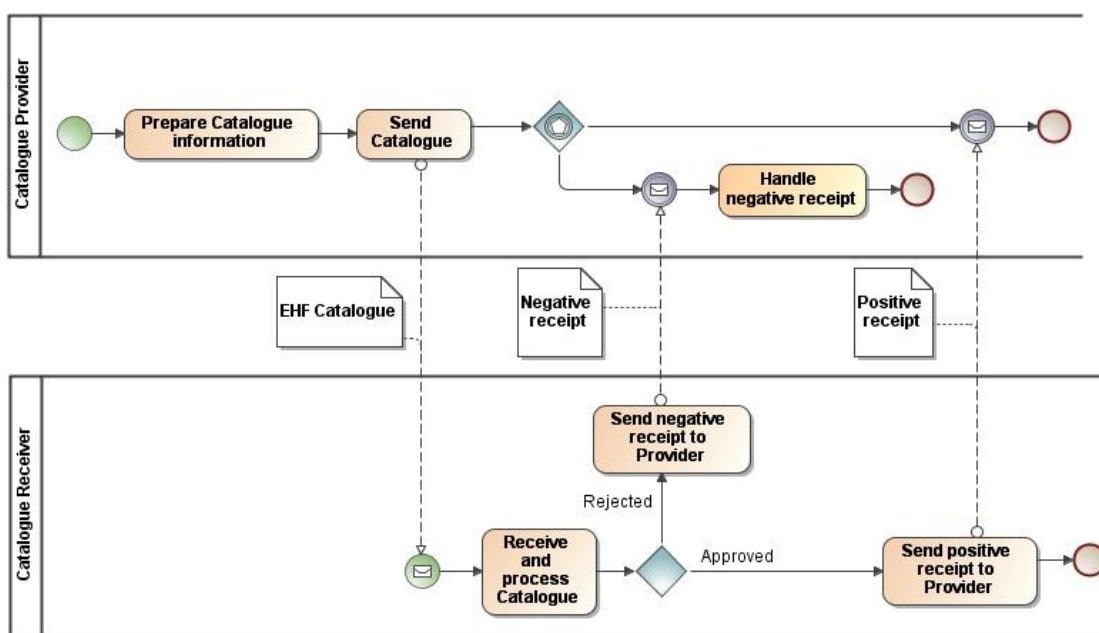
### 5.4 CATALOGUE PROCESS

The Catalogue exchange is the first part of the post-award process and can be described as follows:

1. The Catalogue provider (Supplier) collects information about products or services and transforms these into a Catalogue format. This can either be a complete Catalogue or a Catalogue containing selected articles with changes.
2. The Catalogue is sent to the Catalogue receiver (Buyer) either directly or via a third party.
3. The Catalogue receiver controls if the Catalogue is syntactically correct and contains sufficient information.

4. If the Catalogue is accepted, the Catalogue receiver sends a positive Catalogue Response to the Catalogue provider. The Catalogue is now approved for ordering purposes.
5. If the Catalogue is rejected, the Catalogue receiver sends a negative Catalogue Response to the Catalogue provider with an explanation to the rejection. The Catalogue provider will then make corrections to the Catalogue and resend it.

Figure 2 shows the Catalogue process including the exchange of the EHF Catalogue messages.



**Figure 2: Process model for Catalogue exchange.**

The Catalogue itself will not be returned from buyer to supplier. If a Catalogue message is rejected, a new corrected Catalogue must be sent.

If the exchange involves the use of a Catalogue tool, this may include a more advanced dialogue between buyer and supplier than described here.

## 6 DESCRIPTION OF SELECTED ELEMENTS OF EHF CATALOGUE

There are no formal requirements to catalogue content according to Norwegian regulations. The content requirements are therefore based on the following:

- Information content in the existing Procurement Platform (EPP)
- UBL 2.1
- CEN BII2
- Peppol BIS 1A catalogue

The format will also be verified against requirements in certain areas of the Norwegian private sector.

The following chapters describe selected areas of the format and specifically information elements being important for use in the Norwegian market.

### 6.1 ROLES AND ACTORS

The following roles are defined in the EHF Catalogue. These roles can either be held by the same physical actor or by different actors depending on how the catalogue administration is organized.

| Role                                  | Description  |
|---------------------------------------|--|
| Catalogue Provider<br>(ProviderParty) | Responsible for the preparation and transfer of the Catalogue to the Catalogue receiver. Can be the Supplier itself or a third party providing this service. |
| Catalogue Receiver<br>(ReceiverParty) | Responsible for the reception and control of the Catalogue. Can be the Buyer itself or a third party providing this service to the Buyer.                    |
| Supplier<br>(SellerSupplierParty)     | Responsible for the delivery of products or services specified in the Catalogue.   |
| Buyer<br>(ContractorCustomerParty)    | The party buying products or services from the Catalogue.  |
| Manufacturer<br>(ManufacturerParty)   | The name of the Manufacturer.  |

Example of Supplier information on header level in an EHF Catalogue message:

```
<cac: SellerSupplierParty>
  <cac: Party>
    <cbc: EndpointID schemeID="NO: ORG NR">987654321</cbc: EndpointID>
    <cac: PartyIdentification>
      <cbc: ID schemeID="NO: ORG NR">984297793</cbc: ID>
    </cac: PartyIdentification>
    <cac: PartyName>
      <cbc: Name>Supplier</cbc: Name>
    </cac: PartyName>
    <cac: PostalAddress>
      <cbc: StreetName>Per Krohgs vei 1,Karihaugen</cbc: StreetName>
      <cbc: CityName>OSLO</cbc: CityName>
      <cbc: CountrySubentity>Norway</cbc: CountrySubentity>
    </cac: PostalAddress>
  </cac: Party>
</cac: SellerSupplierParty>
```

```

        <cbc:Country>
        <cbc:IdentificationCode listID="ISO3166-
1:Alpha2">NO</cbc:IdentificationCode>
        </cbc:Country>
    </cac:PostalAddress>
    <cac:Contact>
        <cbc:Name>Ole Olsen</cbc:Name>
        <cbc:Telephone>+46123123123</cbc:Telephone>
        <cbc:ElectronicMail>test@ibxeurope.com</cbc:ElectronicMail>
    </cac:Contact>
</cac:Party>
</cac:SellerSupplierParty>

```

Example of Manufacturer information on line level:

```

<cac:CatalogueLine>
.....
    <cac:Item>
    ....
        <cac:ManufacturerParty>
            <cac:PartyName>
                <cbc:Name>Manufacturers name</cbc:Name>
            </cac:PartyName>
        </cac:ManufacturerParty>
    </cac:Item>
</cac:CatalogueLine>

```

## 6.2 ACTION CODE

The Action code holds instructions about the treatment of the Catalogue by the recipients system. The Action code can be stated either on header or line level.

**It is strongly recommended only to use Action code on header level.**

**Use of Action codes on line level must be explicitly agreed between sender and receiver.**

Guidelines for use:

- Action code must be sent on either header or line level. If Action code is not sent the Catalogue message will be rejected.
- Action code sent on header level will overrule possible Action codes sent on line level.
- If Action code is not sent on header level it is mandatory to send Action codes on all catalogue lines.
- Legal values for Action Code are Add, Replace, Update or Delete.

Action Code on header level:

| Action code | Treatment  |
|-------------|--|
| Add         | A new Catalogue with belonging product lines shall be created. If the Catalogue already exists, it must be rejected by receiver.   |
| Replace     | An existing Catalogue shall be completely replaced by a new version. The current version should be archived by the receiver. If the Catalogue does not exist, it must be rejected by receiver. |
| Update      | Catalogue lines that are sent shall update existing Catalogue lines. The current version should be archived by the receiver. If the Catalogue does not exist, it must be rejected by receiver. |



|        |   |
|--------|---|
| Delete | The whole Catalogue shall be deleted. If the Catalogue does not exist, the complete Catalogue message must be rejected. |
|--------|---|

Action Code on line level:

| Action code | Treatment  |
|-------------|--|
| Add         | A new Catalogue line shall be created. If the Catalogue line already exists, the complete Catalogue message must be rejected.  |
| Update      | An existing Catalogue line shall be completely replaced by a new version of the line. If the Catalogue line does not exist, the complete Catalogue message must be rejected. |
| Delete      | The Catalogue line shall be deleted. If the Catalogue line does not exist, the complete Catalogue message must be rejected.  |

Message response from receiver to sender shall be done according to description in chapter 3.3.

Example of Action code on header level:

```
<cac:Catalogue>
....
  <cbc:ActionCode listID="ACTIONCODE:PEPPOL">Add</cbc:ActionCode>
....
```

Example of Action code on line level:

```
....
<cac:CatalogueLine>
  <cbc:ID>12345</cbc:ID>
  <cbc:ActionCode listID="ACTIONCODE:BII2">Update</cbc:ActionCode>
....
```

## 6.3 PRODUCT IDENTIFICATION

Product identification must be done using the identifiers described below.

- Sellers ID.
- Standard ID, e.g. GTIN
- Manufacturers ID which is necessary when the same product is bought from several suppliers.

Either Sellers ID or Standard ID must be sent. Manufacturers ID shall be sent if available.

Which identifier to use depends on what is known at the time of catalogue exchange or what is commonly used in the relevant business sector.

Example of Sellers ID:

```
<cac:SellersItemIdentification>
  <cbc:ID>222222</cbc:ID>
</cac: SellersItemIdentification>
```

## 6.4 PRODUCT NAME AND DESCRIPTION

The Product name shall be sent in tag <Item/Name> on line level. Long Description of a product shall be sent in <Item/Description> on line level.

The Product name is often sent in the order from buyer to seller. The field length should not exceed 160 characters being the maximum length sent from most existing public purchasing systems. This element is also included in the shopping basket when OCI punch-out (round trip) is used.

Description should not exceed 2000 characters since this is stated as maximum field length from most existing public purchasing systems. This element is not included in the shopping basket when OCI punch-out (round trip) and is not sent in the order. The Description is only shown to the Buyer when searching for the product in the Catalogue.

Example in an EHF Catalogue message:

```
<cbc:Description>GUDBRANDSDALOST G35 1KG. En enhet består av: 10STK à
1KG</cbc:Description>
```

```
....
```

```
<cbc:Name>GUDBRAND.OST G35 1KG</cbc:Name>
```

## 6.5 KEYWORD

Keywords are sent to let the Buyer search for a product without knowing the Product ID or name. Keywords can be repeated, but the number should be limited to ensure correct handling in the receiving system. If more than one Keyword is sent, they should be put in the same tag separated by the %-sign since this is already being used by several actors (but a different sign can be agreed by the trading partners).

Keywords may also be put in separate tags.

Example of several Keywords in the same tag:

```
<cac:Item>
  <cbc:Description> Pallet of water </cbc:Description>
  <cbc:Name languageID="no">Water</cbc:Name>
  <cbc:Keyword>sparkling%natural%water</cbc:Keyword>
  <cac:SellersItemIdentification>
    <cbc:ID>111111</cbc:ID>
  </cac:SellersItemIdentification>
</cac:Item>
```

Example of Keywords in separate tags:

```
<cac:Item>
  <cbc:Description>Pallet of water</cbc:Description>
  <cbc:Name languageID="no">Water</cbc:Name>
  <cbc:Keyword>sparkling</cbc:Keyword>
  <cbc:Keyword>natural</cbc:Keyword>
  <cbc:Keyword>water</cbc:Keyword>
  <cac:SellersItemIdentification>
    <cbc:ID>111111</cbc:ID>
  </cac:SellersItemIdentification>
</cac:Item>
```

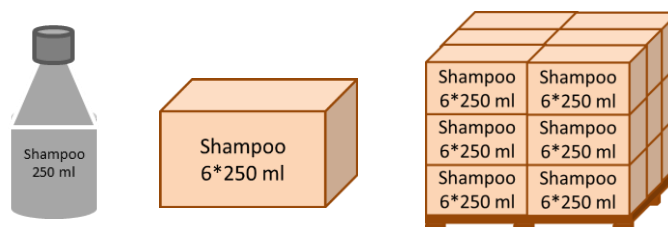
## 6.6 QUANTITIES AND UNITS

Various Quantities and Units can be stated in the EHF Catalogue. These are both related to the ordering process and the logistics process.

The table below lists quantities and units in the format. To all quantities there must be a legal Unit according to the Code list.

| Element name / (Tag name)                             | Description   |
|---|---|
| Orderable unit<br>(OrderableUnit)                     | Unit code for the line item. Mandatory if the item is orderable. Code according to Code list  |
| Content of Consumer item(s)<br>(ContentUnitQuantity)  | Content of Consumer item(s) in orderable unit, e.g. ml in bottles of Shampoo.   |
| Quantity increment<br>(OrderQuantityIncrementNumeric) | Possible limitation to the number of articles that can be ordered. If the Quantity increment is 6 the article must be ordered in a quantity of 6, 12, 18 etc. |
| Minimum Order Quantity<br>(MinimumOrderQuantity)      | The smallest number of items that can be ordered (most often 1).  |
| Maximum Order Quantity<br>(MaximumOrderQuantity)      | The largest number of items that can be ordered (most often unlimited).   |
| Pack Quantity<br>(Item/PackQuantity)                  | Number of items on next lower level, e.g. number of Consumer units in a Trading unit.   |
| Number of Consumer items<br>(Item/PackSizeNumeric)    | Number of Consumer items. E.g. number of bottles on a Pallet.   |

### Example 1:



|                                   | 1 bottle       | Case of 6 bottles | Pallet of 18 cases |
|-----------------------------------|----------------|-------------------|--------------------|
| Line identifier                   | 4              | 5                 | 6                  |
| Supplier Item identifier          | 1111           | 111               | 11                 |
| Item Name                         | Shampoo 250 ml | 6x250 ml Shampoo  | Shampoo            |
| Orderable unit                    | EA             | CS                | PF                 |
| Packaging level                   | CU             | TU                | DU                 |
| Packed units                      |                | EA                | CS                 |
| Packed quantity                   |                | 6                 | 18                 |
| Consumable unit                   | EA             | EA                | EA                 |
| Consumable unit quantity          | 1              | 6                 | 108                |
| ItemNetQuantity                   | 250            | 1500              | 27000              |
| Unit                              | MLT            | MLT               | MLT                |
| MinimumOrderQuantity              | 1              | 1                 | 1                  |
| Unit                              | EA             | EA                | EA                 |
| Component related item Identifier |                | 1111              | 111                |
| Component related item quantity   |                | 6                 | 18                 |

EHF example:

```
<cac:CatalogueLine>
  <cbc:ID>4</cbc:ID>
  <cbc:OrderableUnit>EA</cbc:OrderableUnit>
  <cbc:ContentUnitQuantity unitCode="ML" unitCodeListID="UNECERec20">250
</cbc:ContentUnitQuantity>
  <cbc:OrderQuantityIncrementNumeric>1</cbc:OrderQuantityIncrementNumeric>
  <cbc:MinimumOrderQuantity unitCode="CS" unitCodeListID="UNECERec20">1
</cbc:MinimumOrderQuantity>
  <cbc:PackLevelCode listID="GS17009:PEPPOL">CU</cbc:PackLevelCode>
```

.....

```
<cac:Item>
  <cbc:Description languageID="en">Shampoo 250 ml</cbc:Description>
  <cbc:PackSizeNumeric>1</cbc:PackSizeNumeric>
  <cac:SellersItemIdentification>
    <cbc:ID>1111</cbc:ID>
  </cac:SellersItemIdentification>
```

.....

```
</cac:Item>
```

.....

```
</cac:CatalogueLine>
```

## Example 2:

|                                   | Pack of 500 sheets<br>paper | Case of 5 packs<br>paper | Pallet of 18 cases<br>coppaper |
|-----------------------------------|-----------------------------|--------------------------|--------------------------------|
| Line identifier                   | 7                           | 8                        | 9                              |
| Supplier Item identifier          | A                           | AA                       | AAA                            |
| Item Name                         | 500 copy paper              | 5*500 Copy paper         | Pallet of paper                |
| Orderable unit                    | EA                          | CS                       | PX                             |
| Packaging level                   | CU                          | TU                       | DU                             |
| Packed units                      |                             | EA                       | EA                             |
| Packed quantity                   |                             | 5                        | 18                             |
| Consumable unit                   | EA                          | EA                       | EA                             |
| Consumable unit quantity          | 1                           | 5                        | 90                             |
| ItemNetQuantity                   | 500                         | 2500                     | 45000                          |
| Unit                              | EA                          | EA                       | EA                             |
| MinimumOrderQuantity              | 1                           | 1                        | 1                              |
| Unit                              | EA                          | EA                       | EA                             |
| Component related item Identifier |                             | A                        | AA                             |
| Component related item quantity   |                             | 5                        | 18                             |

EHF Example:

```
<cac:CatalogueLine>
  <cbc:ID>8</cbc:ID>
  <cbc:OrderableUnit>CS</cbc:OrderableUnit>
  <cbc:ContentUnitQuantity unitCode="EA" unitCodeListID="UNECERec20">2500
```

```

</cbc:ContentUnitQuantity>
<cbc:OrderQuantityIncrementNumeric>1</cbc:OrderQuantityIncrementNumeric>
<cbc:MinimumOrderQuantity unitCode="CS" unitCodeListID="UNECERec20">1
</cbc:MinimumOrderQuantity>
<cbc:PackLevelCode listID="GS17009:PEPPOL">TU</cbc:PackLevelCode>
<cac:ComponentRelatedItem>
  <cbc:ID>A</cbc:ID>
  <cbc:Quantity unitCode="EA" unitCodeListID="UNECERec20">5
  </cbc:Quantity>
</cac:ComponentRelatedItem>
.....
<cac:Item>
  <cbc:Description languageID="en">5*500 Copy paper</cbc:Description>
  <cbc:PackQuantity unitCode="CS" unitCodeListID="UNECERec20">5
  </cbc:PackQuantity>
  <cbc:PackSizeNumeric>5</cbc:PackSizeNumeric>
  <cac:SellersItemIdentification>
    <cbc:ID>AA</cbc:ID>
  </cac:SellersItemIdentification>
.....
</cac:Item>
.....
</cac:CatalogueLine>

```

## 6.7 PRICES

All prices in the format are related to the article or service within this Catalogue. The following prices can be stated:

- Net price including all discounts and charges but excluded Vat.
- Item comparison price defining price for a certain quantity. Used for comparing prices for different articles with various quantities.
- Conditional price related to a specific location or a certain order quantity.
- Campaign price.

Be aware that no Gross prices can be sent in the format (price before discount and charges). All prices must have Currency as an attribute. Currency shall be according to Code list.

Example of Prices in EHF Catalogue:

### Net Price:

```

...
<cac:RequiredItemLocationQuantity>
  <cac:Price>
    <cbc:PriceAmount currencyID="NOK">100.00</cbc:PriceAmount>
    <cac:ValidityPeriod>
      <cbc:StartDate>2012-04-26</cbc:StartDate>
      <cbc:EndDate>2012-05-26</cbc:EndDate>
    </cac:ValidityPeriod>
  </cac:Price>
</cac:RequiredItemLocationQuantity>

```

### Comparison Price:

```
...
<cac:ItemComparison>
  <cbc:PriceAmount currencyID="NOK">100.00</cbc:PriceAmount>
  <cbc:Quantity unitCode="EA" unitCodeListID="UNECERec20">1
</cbc:Quantity>
</cac:ItemComparison>
```

### Conditional Price:

```
...
<cac:RequiredItemLocationQuantity>
  <cac:Price>
    <cbc:PriceAmount currencyID="NOK">75.00</cbc:PriceAmount>
    <cbc:BaseQuantity unitCode="EA" unitCodeListID="UNECERec20">100
    </cbc:BaseQuantity>
    <cac:ValidityPeriod>
      <cbc:StartDate>2012-04-26</cbc:StartDate>
      <cbc:EndDate>2012-05-26</cbc:EndDate>
    </cac:ValidityPeriod>
  </cac:Price>
</cac:RequiredItemLocationQuantity>
```

## 6.8 RELATED PRODUCTS AND ACCESSORIES

Products can be related to each other for ordering or logistic purposes. All related products must also be sent as separate Catalogue lines.

Types of relations:

- Products that are bundled and ordered/invoiced together, e.g. bottles and desposits.
- Products that are connected in a product line or a logistics structure, e.g. consumer units and trading units of the same article.
- Accessories that might be sold together with a product, e.g. disk station to a laptop.

Example of related products in an EHF Catalogue message:

Bundled products:

```
<cac:RequiredRelatedItem>
  <cbc:ID>987654</cbc:ID>
  <cbc:Quantity unitCode="EA" unitCodeListID="UNECERec20">1
  </cbc:Quantity>
</cac:RequiredRelatedItem>
```

Logistics structure (also described in chapter 4.11):

```
<cac:ComponentRelatedItem>
  <cbc:ID>2</cbc:ID>
  <cbc:Quantity unitCode="EA" unitCodeListID="UNECERec20">12
  </cbc:Quantity>
</cac:ComponentRelatedItem>
```

Accessories:

```
<cac:AccessoryRelatedItem>
  <cbc:ID>123456</cbc:ID>
  <cbc:Quantity unitCode="EA" unitCodeListID="UNECERec20">1
</cbc:Quantity>
</cac:AccessoryRelatedItem>
```

## 6.9 PRODUCT CLASSIFICATION

A product must be classified according to UNSPSC being the mandatory public classification schemes. Products can also be classified according to regulatory schemes or classification schemes used in certain business sectors. The type of classification shall be stated in the attribute **listID**.

### Product Classification.

Classification must be according to a relevant product classification scheme. UNSPSC is mandatory for all public purchases and must be stated for all products.

Example of Product classification:

```
<cac:CommodityClassification>
  <cbc:ItemClassificationCode listID="UNSPSC">43212105
</cbc:ItemClassificationCode>
</cac:CommodityClassification>
```

## 6.10 HAZARDOUS ITEM

If a product is classified as Hazardous item, a reference to the relevant UNDG-code must be stated and further specification must be provided in an attached document or on a web-site (URI).

Example:

```
<cac:HazardousItem>
  <cbc:HazardClassID>H332</cbc:HazardClassID>
</cac:HazardousItem>
.....
```

If Hazardous:

```
<cac:ItemSpecificationDocumentReference>
  <cbc:ID>1</cbc:ID>
  <cbc:DocumentDescription languageID="en">HMS Safety sheet
</cbc:DocumentDescription>
  <cac:Attachment>
    <cac:ExternalReference>
```

```

        <cbc:URI>http://www.klif.no/no/Tema/Kjemikalier/Klassifisering-og-merking-av-kjemikalier-CLP/Klassifisering-CLP-avsnitt-I-II-og-V/
      </cbc:URI>
    </cac:ExternalReference>
  </cac:Attachment>
</cac:ItemSpecificationDocumentReference>

```

### 6.11 VAT

VAT-information is optional in EHF Catalogue and should be sent as a Category defining the VAT-percent. Catalogue receivers may require VAT-information in the Catalogues based on user or system requirements. If so this must be stated in the Purchasing contract or the Collaboration agreement.

The following VAT-codes are available

- **S** (Standard rate = 25%)
- **H** (Higher rate = 15%)
- **AA** (Low rate = 8%)
- **E** (VAT exemption rate = 0%)
- **Z** (Zero rate = 0%)

Example:

```

<cac:ClassifiedTaxCategory>
  <cbc:ID schemeID="UNECE5305">S</cbc:ID>
  <cac:TaxScheme>
    <cbc:ID>VAT</cbc:ID>
  </cac:TaxScheme>
</cac:ClassifiedTaxCategory>

```

### 6.12 ATTACHMENTS

Attachments can be sent on line level in the Catalogue. This can be images or additional descriptions of a product. It is strongly recommended to use external references in the form of URI's for attachments.

Example:

```

<cac:Item>
  .....
  <cac:ItemSpecificationDocumentReference>
    <cbc:ID>LK8788</cbc:ID>
    <cbc:DocumentDescription>Product image</cbc:DocumentDescription>
    <cac:Attachment>
      <cac:ExternalReference>
        <cbc:URI>http://img.trioving.net/Låskasser/LK8788\_PRD\_FPM\_000.JPG</cbc:URI>
      </cac:ExternalReference>
    </cac:Attachment>
  </cac:ItemSpecificationDocumentReference>
  .....
</cac:Item>

```



### 6.13 LOGISTICS INFORMATION

EHF Catalogue includes elements to support the need for logistics information which is a requirement in many industries in the Norwegian market. These elements are not mandatory, but trading partners can agree upon the use in the commercial agreements.

The Logistics elements can be used to specify different pack levels for the same article. This must be done as follows:

- Each pack level is regarded as a unique product and must be sent as a separate Catalogue line and identified with a unique ID such as GTIN.
- Information about pack level is done in the element PackLevelCode on line level. The Pack level codes are based on the Edifact/Eancom-standard and the following codes are available (codes in brackets are used in some business sectors in Norway):
  - DU = Dispatch Unit (T-Pak or Pall)
  - HN = Handling Unit (level between TU and DU). Not commonly used.
  - TU = Traded Unit (D-Pak or L-Pak)
  - CU = Consumer Unit (F-Pak)
- It must be stated if the pack level is orderable.
- The relation between pack levels must be specified, e.g. that a Dispatch unit contains Traded units.

Below is an example of Logistics information in an EHF Catalogue message.

The example shows a Dispatch unit (DU) containing a Traded unit containing a Consumer unit.

```
<!--Catalogue line for Dispatch unit, highest pack level...-->
<!--Contains 12 Traded units (cases) ...-->
<cac:CatalogueLine>
  <cbc:ID>1</cbc:ID>
  <cbc:ActionCode listID="ACTIONCODE:BII2">Add</cbc:ActionCode>
  <cbc:OrderableIndicator>false</cbc:OrderableIndicator>
  <cbc:PackLevelCode listID="GS17009:PEPPOL">DU</cbc:PackLevelCode>
  <cac:ComponentRelatedItem>
    <cbc:ID>2</cbc:ID>
    <cbc:Quantity unitCode="EA" unitCodeListID="UNECERec20">12
    </cbc:Quantity>
  </cac:ComponentRelatedItem>
  <cac:Item>
    <cbc:Description>Drikke Helpall</cbc:Description>
    <cbc:PackQuantity unitCode="EA" unitCodeListID="UNECERec20">1
    </cbc:PackQuantity>
    <cbc:Name languageID="no"> Drikke</cbc:Name>
    <cac:SellersItemIdentification>
      <cbc:ID>111111</cbc:ID>
    </cac:SellersItemIdentification>
  </cac:Item>
</cac:CatalogueLine>
<!--Catalogue line for Traded unit...-->
<!--Contains 6 consumer units ...-->
<cac:CatalogueLine>
  <cbc:ID>2</cbc:ID>
```

```

<cbc:ActionCode listID="ACTIONCODE:BII2">Add</cbc:ActionCode>
<cbc:OrderableIndicator>true</cbc:OrderableIndicator>
<cbc:PackLevelCode listID="GS17009:PEPPOL">TU</cbc:PackLevelCode>
<cac:ComponentRelatedItem>
  <cbc:ID>3</cbc:ID>
  <cbc:Quantity unitCode="EA" unitCodeListID="UNECERec20">6
</cbc:Quantity>
</cac:ComponentRelatedItem>
<cac:Item>
  <cbc:Description>Drikke lagerpakning</cbc:Description>
  <cbc:PackQuantity unitCode="EA" unitCodeListID="UNECERec20">1
</cbc:PackQuantity>
  <cbc:Name languageID="no">Drikke</cbc:Name>
  <cac:SellersItemIdentification>
    <cbc:ID>222222</cbc:ID>
  </cac:SellersItemIdentification>
</cac:Item>
</cac:CatalogueLine>
<!--Catalogue line for Consumer unit, lowest pack level...-->
<!--Contains prepack with 4 bottles of water ...-->
<cac:CatalogueLine>
  <cbc:ID>3</cbc:ID>
  <cbc:ActionCode listID="ACTIONCODE:BII2">Add</cbc:ActionCode>
  <cbc:OrderableIndicator>false</cbc:OrderableIndicator>
  <cbc:PackLevelCode listID="GS17009:PEPPOL">CU</cbc:PackLevelCode>
  <cac:Item>
    <cbc:Description>Drikke 4-pack</cbc:Description>
    <cbc:PackQuantity unitCode="EA" unitCodeListID="UNECERec20">1
  </cbc:PackQuantity>
    <cbc:Name languageID="no">Drikke</cbc:Name>
    <cac:SellersItemIdentification>
      <cbc:ID>333333</cbc:ID>
    </cac:SellersItemIdentification>
  </cac:Item>
</cac:CatalogueLine>

```

## 6.14 ENVIRONMENT, SOCIAL RESPONSIBILITY AND ECOLOGICAL

Public actors will have requirements related to the environment, ecologically produced food and fair trade. They will also demand that basic human rights are respected in the product production and trade. To be able to highlight products that meet some of these criteria, the EHF Catalogue contains elements to document Environmental labeling and Social certificates. The labels are connected to the relevant product or service on line level enabling the Search engines to make them visible for the buyer during the purchasing process. Detailed information about the different labels can be found on the issuing party's website which is referred to via an URI.

Several labels can be connected to each product, but for practical reasons there is a limitation of 8 labels on the Electronic Procurement Platform (EPP).

The classification codes and labels used on EPP are chosen from the site <http://www.ecolabelindex.com/ecolabels>. The following codes are used by EPP.

Introducing these classification codes in the electronic messages will support the aim for correct purchases. The Procurement systems must collect the order lines with environmental and social labels and report them to the statistics tools available for the buyers. This will make it possible to measure the purchasing behavior and monitor that the requirements from the tendering process are fulfilled.

Example of Classification codes:



Svanemerket  
Classification Code (ID) NEO  
Certificate TypeCode: EcoLabel (Environment)



Fairtrade  
Classification Code (ID) FBL  
Certificate TypeCode: SosialLabel (Social responsibility)



EU organic products label  
Classification Code (ID) EOP  
Certificate TypeCode: OrganicLabel (Ecological)

Example of labeling in an EHF Catalogue message:

```
.....
<cac:Certificate>
  <cbc:ID>NEO</cbc:ID>
  <cbc:CertificateTypeCode>EcoLabel</cbc:CertificateTypeCode>
  <cbc:CertificateType>EcoLabel</cbc:CertificateType>
  <cac:IssuerParty>
    <cac:PartyName>
      <cbc:Name>Svanemerket</cbc:Name>
    </cac:PartyName>
  </cac:IssuerParty>
  <cac:DocumentReference>
    <cac:Attachment>
      <cac:ExternalReference>
        <cbc:URI>http://www.svanemerket.no/</cbc:URI>
      </cac:ExternalReference>
    </cac:Attachment>
  </cac:DocumentReference>
</cac:Certificate>
```

CertificateTypeCode is not in use today, but can be used by the Purchasing systems to group the different labels.

## 6.15 DIMENSION (HEIGHT, WIDTH ETC.)

Physical properties are important for logistics. The following values can be stated:

- Height (HT)
- Width (WD)
- Length (LN)

- Gross weight (AAE)
- Temperature (TC)

Example:

....

```
<cac:Item>
....
  <cac:Dimension>
    <cbc:AttributeID schemeID="UNCL6313">HT</cbc:AttributeID>
    <cbc:Measure unitCode="CMT">12.5</cbc:Measure>
  </cac:Dimension>
....
</cac:Item>
```

## 6.16 REPLACEMENT PRODUCT

Replacement product is used to identify a product replacing an existing product in the Catalogue. The existing product is stated as replaced on the Catalogue line for the new product.

Example:

....

```
<cac:CatalogueLine>
....
  <cac:ReplacedRelatedItem>
    <cbc:ID>12345</cbc:ID>
    <cbc:Quantity unitCode="EA" unitCodeListID="UNECERec20">5</cbc:Quantity>
    <cbc:Description languageID="no">Toner B (erstattes av Toner C)</cbc:Description>
  </cac:ReplacedRelatedItem>
....
</cac:CatalogueLine>
```

## 6.17 ADDITIONAL ITEM PROPERTIES

Additional properties are meant for product properties that cannot be sent in any of the defined elements in EHF Catalogue. Additional properties consist of the Name of the property and the actual Value.

Example of additional properties:

- Color
- Allergens.  
Legal values: YES, NO, UNKNOWN, FREE.
- Nutrition.  
Stated with amount per 100 g/ml.
- Genetically modified.  
Legal values: True, False

Example in EHF Catalogue message:

```

<cac:AdditionalItemProperty>
  <cbc:Name languageID="no">Farge</cbc:Name>
  <cbc:Value languageID="no">Rød</cbc:Value>
  <cbc:ValueQualifier>Color</cbc:ValueQualifier>
</cac:AdditionalItemProperty>
.....
<cac:AdditionalItemProperty>
  <cbc:Name>Farge</cbc:Name>
  <cbc:Value>Rød</cbc:Value>
  <cbc:ValueQualifier>Color</cbc:ValueQualifier>
</cac:AdditionalItemProperty>
.....
<cac:AdditionalItemProperty>
  <cbc:Name>ContainNuts</cbc:Name>
  <cbc:Value>YES</cbc:Value>
  <cbc:ValueQualifier>Allergen</cbc:ValueQualifier>
</cac:AdditionalItemProperty>
.....
<cac:AdditionalItemProperty>
  <cbc:Name>NutritionProtein</cbc:Name>
  <cbc:ValueQuantity unitCode="GRM" unitCodeListID="UNECERec20">2.5
</cbc:ValueQuantity>
  <cbc:ValueQualifier>Nutrition</cbc:ValueQualifier>
</cac:AdditionalItemProperty>
.....
<cac:AdditionalItemProperty>
  <cbc:Name>GeneticallyModified</cbc:Name>
  <cbc:Value>True</cbc:Value>
</cac:AdditionalItemProperty>

```

## 7 INFORMATION CONTENT

The table on the next pages describes all elements of the EHF Catalogue.  
Below are explanations of the columns in the table.

Name contains the descriptive name of the element. Names in blue are composite elements that should be read as headers for the following lines.

Description provides supplementary information of the element and possible rules for the use of it.

Req. states if the element is

M = Mandatory

R = Recommended

O = Optional

Max rep. States number of repetition's for the element.

1 Element can only be repeated once.

unbounded Element can be repeated as many times as wanted

Example shows examples of content.

XML Element is the tag-name according to UBL.

## 7.1 INFORMATION CONTENT CATALOGUE

| Name                       | Description   | Req.     | Max rep. | Example  | XML Element                   |
|----------------------------|---|----------|----------|--|-------------------------------|
| <b>EHF Catalogue</b>       | <b>Norwegian catalogue format based on BII2</b>   |          |          |  | <b>Catalogue</b>              |
| — UBL VersionID            | Identifies the UBL version on which the transaction instance is based   | M        | 1        | 2.1  | <b>cbc:UBLVersionID</b>       |
| — Customization identifier | Identifies the specification of content and rules that apply to the transaction.  | M        | 1        | urn:www.cenbii.eu:transaction:biitrns019:ver2.0:<br>extended:urn:www.peppol.eu:bis:peppol1a:ver2.0:<br>extended:urn:www.difi.no:ehf:katalog:ver1.0 | <b>cbc:CustomizationID</b>    |
| — Profile identifier       | Identifies the BII profile or business process context in which the transaction appears.  | M        | 1        | urn:www.cenbii.eu:profile:bii01:ver2.0   | <b>cbc:ProfileID</b>          |
| — Catalogue identifier     | An catalogue 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.  | M        | 1        | Cat-02   | <b>cbc:ID</b>                 |
| — Catalogue action code    | Identifies how a received catalogue should be used against existing catalogue lines sent in previous catalogues, so that no discrepancies occur between the suppliers and customers information. Describes how to treat existing items, not part of the received catalogue and those that are included (unchanged, changed or deleted). Default action is to fully replace the source catalogue.<br>Legal values: Add, Update, Delete.  | R        | 1        | Add  | <b>cbc:ActionCode</b>         |
| — Catalogue name           | A name of the catalogue for general reference. E.g. "Christmas catalogue"   | O        | 1        | Spring Catalogue   | <b>cbc:Name</b>               |
| — Catalogue issue date     | The date on which the catalogue instance was issued.  | M        | 1        | 2013-04-01   | <b>cbc:IssueDate</b>          |
| — Catalogue version        | The version of the catalogue revision. The version ID is used to controll how a Catalogue transaction acts on existing lines that are not stated in the transactions. Should they be left alone or deleted. If Catalogue transaction is „Replace“ then action codes on the line have no relevance. All existing lines are deleted and the ones stated in the Catalogue transaction added. If Catalogue transaction is „Update“ then action codes on lines controll each line. | R        | 1        | v2   | <b>cbc:VersionID</b>          |
| <b>— Validity period</b>   | <b>Information about Validity period</b>  | <b>M</b> | <b>1</b> |  | <b>cac:ValidityPeriod</b>     |
| — Period start date        | The date on which the period starts. The start dates counts as part of the period.  | M        | 1        | 2013-04-01   | <b>cbc:StartDate</b>          |
| — Period end date          | The date on which the period ends. The end date counts as part of the period.   | R        | 1        | 2013-08-01   | <b>cbc:EndDate</b>            |
| <b>— Contract</b>          | <b>A referece to a document or other source that can be positively identified.</b>  | <b>O</b> | <b>1</b> |  | <b>cac:ReferencedContract</b> |

| Name                              | Description   | Req.     | Max rep.         | Example         | XML Element                         |
|-----------------------------------|---|----------|------------------|-----------------|-------------------------------------|
| —Reference identifier             | Positive identification of the reference such as a unique identifier.   | O        | 1                | Contract-01     | cbc:ID                              |
| —Contract Issuedate               | Date of referenced contract   | O        | 1                | 2013-09-15      | cbc:IssueDate                       |
| —Reference type                   | The short description of what is reference such as contract type, document type , meter etc.  | O        | 1                | Frame agreement | cbc:ContractType                    |
| <b>Source catalogue reference</b> | <b>Reference to prior catalogue</b>   | <b>O</b> | <b>1</b>         |                 | <b>cac:SourceCatalogueReference</b> |
| —Source catalogue identifier      | Identifies the existing, already received catalogue that this message should be acted upon, so that no discrepancies occur between the suppliers and customers information.               | O        | 1                | Cat-01          | cbc:ID                              |
| <b>ProviderParty</b>              | <b>The party that sends the catalogue.</b>  | <b>M</b> | <b>1</b>         |                 | <b>cac:ProviderParty</b>            |
| —Electronic address ID            | A catalogue may contain the providing party electronic address. The address can be of any format and the format should be identified in the message.                                      | M        | 1                | 123456789       | cbc:EndpointID                      |
| <b>Party identification</b>       | <b>Information about PartyID</b>  | <b>O</b> | <b>1</b>         |                 | <b>cac:PartyIdentification</b>      |
| —Party identifier                 | Use in the absence of or in addition to Party Name. Use an identifier known to the document recipient.  | R        | 1                | 7080000985698   | cbc:ID                              |
| <b>Party name</b>                 | <b>Information about party name</b>   | <b>O</b> | <b>1</b>         |                 | <b>cac:PartyName</b>                |
| —Party name                       | Use in the absence of or in addition to Party Identifier.   | R        | 1                | Provider        | cbc:Name                            |
| <b>Postal address</b>             | <b>Information about Postal address</b>   | <b>O</b> | <b>1</b>         |                 | <b>cac:PostalAddress</b>            |
| —Address line 1                   | The main address line in a postal address usually the street name and number.   | O        | 1                | Torggata 2      | cbc:StreetName                      |
| —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. | O        | 1                |                 | cbc:AdditionalStreetName            |
| —City                             | The common name of the city where the postal address is. The name is written in full rather than as a code.   | O        | 1                | Kristiansand    | cbc:CityName                        |
| —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.   | O        | 1                | 4634            | cbc:PostalZone                      |
| —Country Subdivision              | For specifying a region, county, state, province etc. within a country by using text.   | O        | 1                |                 | cbc:CountrySubentity                |
| <b>Country</b>                    | <b>Country information</b>  | <b>O</b> | <b>1</b>         |                 | <b>cac:Country</b>                  |
| —Country code                     | The country where the address is. The country should always be given by using ISO code 3166 alpha 2   | O        | 1                | NO              | cbc:IdentificationCode              |
| <b>Legal entity</b>               | <b>Assosiation to Party Legal Entity</b>  | <b>O</b> | <b>unbounded</b> |                 | <b>cac:PartyLegalEntity</b>         |
| —Registration name                | The name under which the provider is legally registered.  | O        | 1                | Aktøren ASA     | cbc:RegistrationName                |



| Name                  | Description   | Req. | Max rep.  | Example        | XML Element              |
|-----------------------|---|------|-----------|----------------|--------------------------|
| Company ID            | The supplying organisations legal organisation number. For norwegian suppliers: Attributes: schemeID="NO:ORGNR", schemeName="Foretaksregisteret" for companies AS, ASA and NUF, but is recommended for all companies registered in "Foretaksregisteret".<br>schemeAgencyID="82" | O    | 1         | 987654321      | cbc:CompanyID            |
| Address               | <b>Adress for the legal entity</b>  | O    | 1         |                | cac:RegistrationAddress  |
| City name             | The name of the city where the provider is legally registered.  | O    | 1         | Oslo           | cbc:CityName             |
| Country               | <b>Country information</b>  | O    | 1         |                | cac:Country              |
| Country               | The country in which the provider is legally registered.  | O    | 1         | NO             | cbc:IdentificationCode   |
| Receiver party        | <b>The party to which the catalogue is sent.</b>  | M    | 1         |                | cac:ReceiverParty        |
| Electronic address ID | A catalogue may contain the receiving party electronic address. The address can be of any format and the format should be identified in the message.  | M    | 1         | 923654321      | cbc:EndpointID           |
| Party identification  | <b>Information about PartyID</b>  | O    | 1         |                | cac:PartyIdentification  |
| Party identifier      | Use in the absence of or in addition to Party Name. Use an identifier known to the document recipient.  | R    | 1         | 7080000374200  | cbc:ID                   |
| Party name            | <b>Information about Party name</b>   | O    | 1         |                | cac:PartyName            |
| Party name            | Use in the absence of or in addition to Party Identifier.   | R    | 1         | Receiver       | cbc:Name                 |
| Postal address        | <b>Information about Postal address</b>   | O    | 1         |                | cac:PostalAddress        |
| Address line 1        | The main address line in a postal address usually the street name and number.   | O    | 1         | Mainstreet 13B | cbc:StreetName           |
| 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.   | O    | 1         |                | cbc:AdditionalStreetName |
| City                  | The common name of the city where the postal address is. The name is written in full rather than as a code.   | O    | 1         | London         | cbc:CityName             |
| 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.   | O    | 1         | N8 7DY         | cbc:PostalZone           |
| Country subdivision   | For specifying a region, county, state, province etc. within a country by using text.   | O    | 1         |                | cbc:CountrySubentity     |
| Country               | <b>Country information</b>  | O    | 1         |                | cac:Country              |
| Country code          | The country where the address is. The country should always be given by using ISO code 3166 alpha 2   | O    | 1         | GB             | cbc:IdentificationCode   |
| Legal entity          | <b>Assosiation to Party Legal Entity</b>  | O    | unbounded |                | cac:PartyLegalEntity     |
| Registration name     | The name under which the provider is legally registered.  | O    | 1         | Aktøren ASA    | cbc:RegistrationName     |

| Name                  | Description  | Req. | Max rep. | Example       | XML Element              |
|-----------------------|--|------|----------|---------------|--------------------------|
| Company ID            | The supplying organisations legal organisation number. For norwegian suppliers: Attributes: schemeID="NO:ORGNR", schemeName="Foretaksregisteret" for companies AS, ASA and NUF, but is recommended for all companies registered in "Foretaksregisteret". schemeAgencyID="82" | O    | 1        | 987654321     | cbc:CompanyID            |
| Address               | <b>Adress for the legal entity</b>   | O    | 1        |               | cac:RegistrationAddress  |
| City name             | The name of the city where the receiver is legally registered.   | O    | 1        | Oslo          | cbc:CityName             |
| Country               | <b>Country information</b>   | O    | 1        |               | cac:Country              |
| Country               | The country in which the receiver is legally registered.   | O    | 1        | NO            | cbc:IdentificationCode   |
| Supplier              | <b>The party that provides the items specified in the catalogue.</b>   | O    | 1        |               | cac:SellerSupplierParty  |
| Party                 | <b>Party information</b>   | O    | 1        |               | cac:Party                |
| Electronic address ID | A catalogue may contain the receiving party electronic address. The address can be of any format and the format should be identified in the message.   | R    | 1        | 123456789     | cbc:EndpointID           |
| Party identification  | <b>Information about Party identification</b>  | O    | 1        |               | cac:PartyIdentification  |
| Party identifier      | Use in the absence of or in addition to Party Name. Use an identifier known to the document recipient.   | R    | 1        | 7080000985134 | cbc:ID                   |
| Party name            | <b>Information about Party name</b>  | O    | 1        |               | cac:PartyName            |
| Party name            | Use in the absence of or in addition to Party Identifier.  | R    | 1        | Supplier      | cbc:Name                 |
| Postal address        | <b>Information about Postal address</b>  | O    | 1        |               | cac:PostalAddress        |
| Address line 1        | The main address line in a postal address usually the street name and number.  | O    | 1        | Storgata 1    | cbc:StreetName           |
| 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.  | O    | 1        |               | cbc:AdditionalStreetName |
| City                  | The common name of the city where the postal address is. The name is written in full rather than as a code.  | O    | 1        | Oslo          | cbc:CityName             |
| 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.  | O    | 1        | 0612          | cbc:PostalZone           |
| Country subdivision   | For specifying a region, county, state, province etc. within a country by using text.  | O    | 1        |               | cbc:CountrySubentity     |
| Country               | <b>Country information</b>   | O    | 1        |               | cac:Country              |
| Country code          | The country where the address is. The country should always be given by using ISO code 3166 alpha 2  | O    | 1        | NO            | cbc:IdentificationCode   |

| Name                        | Description   | Req.     | Max rep.         | Example               | XML Element                        |
|-----------------------------|---|----------|------------------|-----------------------|------------------------------------|
| <b>Contact</b>              | <b>Contact information</b>  | <b>O</b> | <b>1</b>         |                       | <b>cac:Contact</b>                 |
| —Contact person name        | The name of the contact person.   | O        | 1                | Ole Olsen             | <b>cbc:Name</b>                    |
| —Contact telephone number   | A phone number for the contact person. If the person has a direct number, this is that number.  | O        | 1                | 90123456              | <b>cbc:Telephone</b>               |
| —Contact fax number         | A fax number for the contact persons.   | O        | 1                |                       | <b>cbc:Telefax</b>                 |
| —Contact email address      | The e-mail address for the contact person. If the person has a direct e-mail this is that email.  | O        | 1                | ole.olsen@supplier.no | <b>cbc:ElectronicMail</b>          |
| <b>Customer</b>             | <b>Customer information</b>   | <b>O</b> | <b>1</b>         |                       | <b>cac:ContractorCustomerParty</b> |
| <b>Party</b>                | <b>Party information</b>  | <b>O</b> | <b>1</b>         |                       | <b>cac:Party</b>                   |
| —Electronic address ID      | A catalogue may contain the receiving party electronic address. The address can be of any format and the format should be identified in the message.          | R        | 1                |                       | <b>cbc:EndpointID</b>              |
| <b>Party identification</b> | <b>Information about Party identification</b>   | <b>O</b> | <b>1</b>         |                       | <b>cac:PartyIdentification</b>     |
| —Party identifier           | Use in the absence of or in addition to Party Name. Use an identifier known to the document recipient.  | O        | 1                | 7080000374764         | <b>cbc:ID</b>                      |
| <b>Party name</b>           | <b>Information about Party name</b>   | <b>O</b> | <b>1</b>         |                       | <b>cac:PartyName</b>               |
| —Party name                 | Use in the absence of or in addition to Party Identifier.   | O        | 1                |                       | <b>cbc:Name</b>                    |
| <b>Contact</b>              | <b>Contact information</b>  | <b>O</b> | <b>1</b>         |                       | <b>cac:Contact</b>                 |
| —Kjøpers referanse          | Name or identifier specifying the customers reference (Eg employee number)  | O        | 1                |                       | <b>cbc:ID</b>                      |
| —Contact person name        | The name of the contact person.   | O        | 1                |                       | <b>cbc:Name</b>                    |
| —Contact telephone number   | A phone number for the contact person. If the person has a direct number, this is that number.  | O        | 1                |                       | <b>cbc:Telephone</b>               |
| —Contact fax number         | A fax number for the contact persons.   | O        | 1                |                       | <b>cbc:Telefax</b>                 |
| —Contact email address      | The e-mail address for the contact person. If the person has a direct e-mail this is that email.  | O        | 1                |                       | <b>cbc:ElectronicMail</b>          |
| <b>TradingTerms</b>         | <b>General payment conditions</b>   | <b>O</b> | <b>unbounded</b> |                       | <b>cac:TradingTerms</b>            |
| —General payment conditions | Description of general payment conditions   | O        | unbounded        |                       | <b>cbc:Information</b>             |
| <b>Catalogue line</b>       | <b>Information on Catalogue line</b>  | <b>M</b> | <b>unbounded</b> |                       | <b>cac:CatalogueLine</b>           |
| —Line identifier            | Each line must have an identifier that is unique within the document to make it possible to positively reference the line. For example, from other documents. | M        | 1                | 1                     | <b>cbc:ID</b>                      |

| Name                       | Description  | Req. | Max rep.  | Example    | XML Element                       |
|----------------------------|--|------|-----------|------------|-----------------------------------|
| —Line action code          | Used to instruct the catalogue receiver on what action should be taken on the identified line when revising a catalogue. See rule on catalogue version ID. When using Update or Delete codes, the entire Catalogue Line is updated or deleted.<br>Legal values: Add, Update, Delete.   | M    | 1         | Update     | cbc:ActionCode                    |
| —Contract Subdivision      | Reference to subsection of contract  | O    | 1         |            | cbc:ContractSubdivision           |
| —Orderable indicator       | Default value is True i.e. Item on the Catalogue Line can be ordered. Can be used to indicate if an Item is temporarily out of stock (via a Catalogue Update).   | M    | 1         | true       | cbc:OrderableIndicator            |
| —Orderable unit            | The unit in which the item described in this catalogue line can be ordered. The same item can be described in more than one catalogue line with different orderable units. E.g. catalogue line 1 describes item X that can be ordered in boxes at a given price. Line 2 may describe the same item X as orderable in pallets where the price is lower. | O    | 1         | EA         | cbc:OrderableUnit                 |
| —Item net quantity         | The net quantity of the item that is contained in each consumable unit, excluding any packaging materials.   | O    | 1         | 10         | cbc:ContentUnitQuantity           |
| —Order quantity increment  | The increment of Orderable units that can be ordered.  | O    | 1         | 1          | cbc:OrderQuantityIncrementNumeric |
| —Minimum order quantity    | The minimum number of orderable units that can be ordered according to details provided in the catalogue line, such as price.  | O    | 1         | 1          | cbc:MinimumOrderQuantity          |
| —Maximum order quantity    | The maximum number of orderable units that can be ordered according to details provided in the catalogue line, such as price.  | O    | 1         | 100        | cbc:MaximumOrderQuantity          |
| —Line warranty information | Warranty information that applies to the catalogue line item.  | O    | 1         |            | cbc:WarrantyInformation           |
| —Packaging level           | The packing level of the catalogue line.   | O    | 1         | TU         | cbc:PackLevelCode                 |
| —Validity period           | <b>The period during which the information in the catalogue line is valid. An orderable catalogue item is no longer orderable after the validity period expires. Used for example for promotional item or prices.</b>  | O    | 1         |            | cac:LineValidityPeriod            |
| —Period start date         | The date on which the period starts. The start dates counts as part of the period.   | O    | 1         | 2013-04-01 | cbc:StartDate                     |
| —Period end date           | The date on which the period ends. The end date counts as part of the period.  | O    | 1         |            | cbc:EndDate                       |
| —Item comparison           | <b>Used to provide price information based on a standard quantity</b>  | O    | unbounded |            | cac:ItemComparison                |
| —Standardized unit price   | The item price based on a standardized unit. E.g. Price of each liter.<br>See guideline on Items and packing units in a catalogue.   | O    | 1         |            | cbc:PriceAmount                   |

| Name                                | Description   | Req.   | Max rep.  | Example | XML Element                          |
|-------------------------------------|---|--------|-----------|---------|--------------------------------------|
| —Standard unit quantity             | The quantity of standard units that are in each consumable unit. E.g. if consumable units are bottles and each bottle contains 0,333 liters the standard unit quantity is 0,333<br>See guideline on Items and packing units in a catalogue. | O      | 1         |         | cbc:Quantity                         |
| <b>ComponentRelated Item</b>        | <b>Product that is a component to current product</b>   | O      | unbounded |         | cac:ComponentRelatedItem             |
| —Item identifier                    | The sellers identifier for the related item.  | O      | 1         |         | cbc:ID                               |
| —Item quantity                      | The quantity that applies to the relationship.  | O      | 1         |         | cbc:Quantity                         |
| <b>AccessoryRelated Item</b>        | <b>Product that is an accessory to current product</b>  | O      | unbounded |         | cac:AccessoryRelatedItem             |
| —Item identifier                    | The sellers identifier for the related item.  | O      | 1         |         | cbc:ID                               |
| —Item quantity                      | The quantity that applies to the relationship.  | O      | 1         |         | cbc:Quantity                         |
| <b>RequiredRelated Item</b>         | <b>Product that is a required component to current product and is always sold together</b>  | O      | unbounded |         | cac:RequiredRelatedItem              |
| —Item identifier                    | The sellers identifier for the related item.  | O      | 1         |         | cbc:ID                               |
| —Item quantity                      | The quantity that applies to the relationship.  | O      | 1         |         | cbc:Quantity                         |
| <b>ReplacedRelated Item</b>         | <b>Product that is being replaced by current product</b>  | O      | unbounded |         | cac:ReplacedRelatedItem              |
| —Item identifier                    | The sellers identifier for the related item.  | O      | 1         |         | cbc:ID                               |
| —Item quantity                      | The quantity that applies to the relationship.  | O      | 1         |         | cbc:Quantity                         |
| <b>RequiredItemLocationQuantity</b> | <b>Used to specify the price of the item. Can also be used to specify prices that may be dependent on quantities and/or locations.</b>  | O      | unbounded |         | cac:<br>RequiredItemLocationQuantity |
| —Price lead time                    | The order lead time for the particular location.  | O      | 1         | 1       | cbc:LeadTimeMeasure                  |
| —Quantity threshold                 | Minimum quantity for the given price  | O      | 1         |         | cbc:MinimumQuantity                  |
| —Quantity ceiling                   | Max quantity for the given price  | O      | 1         |         | cbc:MaximumQuantity                  |
| <b>ApplicableTerritory Address</b>  | <b>Use to specify the area or place to which the Item Location Quantity values e.g. lead time, base price and base quantity, apply.</b>   | O      | unbounded |         | cac:ApplicableTerritoryAddress       |
| —Address line 1                     | The main address line in a postal address usually the street name and number.   | O      | 1         |         | cbc:StreetName                       |
| —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.   | O      | 1         |         | cbc:AdditionalStreetName             |
| —City                               | The common name of the city where the postal address is. The name is written in full rather than as a code.<br>The common name of the city where the postal address is. The name is written in full rather than as a code.                  | O<br>O | 1         |         | cbc:CityName                         |
| —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.   | O      | 1         |         | cbc:PostalZone                       |

| Name                     | Description  | Req.     | Max rep.         | Example                   | XML Element                 |
|--------------------------|--|----------|------------------|---------------------------|-----------------------------|
| Country subdivision      | For specifying a region, county, state, province etc. within a country by using text.  | O        | 1                | Østlandet                 | cbc:CountrySubentity        |
|                          | For specifying a region, county, state, province etc. within a country by using text.  | O        |                  |                           |                             |
| <b>Country</b>           | <b>Country information</b>   | <b>O</b> | <b>1</b>         |                           | <b>cac:Country</b>          |
| Country code             | The country where the address is. The country should always be given by using ISO code 3166 alpha 2  | O        | 1                | NO                        | cbc:IdentificationCode      |
|                          | The country where the address is. The country should always be given by using ISO code 3166 alpha 2  | O        |                  | NO                        |                             |
| <b>Price</b>             | <b>The price for the item at the specified locations</b>   | <b>O</b> | <b>1</b>         |                           | <b>cac:Price</b>            |
| Item price               | The price for the item at the specified locations.   | O        | 1                | 200,00                    | cbc:PriceAmount             |
|                          | The price is given for each orderable unit.  |          |                  |                           |                             |
| Base Quantity            | The number of quantity units for which the price is stated   | O        | 1                | 10                        | cbc:BaseQuantity            |
| Price type               | The type of the price so that the receiver knows if the price may be changed, is indicative. When prices are temporary the validity period for the price should be defined by stating the price validity period. | O        | 1                |                           | cbc:PriceType               |
| OrderableUnit FactorRate | The factor used to convert the Base Quantity to an Orderable Unit. Must be specified if the Orderable Unit differs from the Base Quantity. If not present, assumed value is 1                                    | O        | 1                |                           | cbc:OrderableUnitFactorRate |
| <b>Validity period</b>   | <b>Information about Validity period</b>   | <b>O</b> | <b>unbounded</b> |                           | <b>cac:ValidityPeriod</b>   |
| Period start date        | The date on which the period starts. The start dates counts as part of the period.   | O        | 1                | 2013-04-01                | cbc:StartDate               |
| Period end date          | The date on which the period ends. The end date counts as part of the period.  | O        | 1                | 2013-05-01                | cbc:EndDate                 |
| <b>Item</b>              | <b>Used to specify the details of the item in the catalogue.</b>   | <b>M</b> | <b>1</b>         |                           | <b>cac:Item</b>             |
| Item description         | A detailed description of the item. Use one description pr. language   | R        | unbounded        | Office chair by John Doe. | cbc:Description             |
| Packed quantity          | The number of packed units that are in the orderable unit. E.g. if the orderable unit is a pallet that contains 30 boxes then the packed units are BOX and the packed quantity is 30.                            | O        | 1                | 30                        | cbc:PackQuantity            |
| Consumable unit quantity | Specifies the number of consumable units that are in each orderable unit.  | O        | 1                |                           | cbc:PackSizeNumeric         |
|                          | See guideline on Items and packing units in a catalogue.   |          |                  |                           |                             |
| Item name                | A short name for an item.  | M        | 1                | Office chair              | cbc:Name                    |
| Item key words           | Used to specify searchable keywords and/or synonyms for the Item. E.g. Item Name = Colgate or Total / Keyword =Toothpaste  | O        | unbounded        | Toothpaste                | cbc:Keyword                 |
| Brand name               | Brand name for the product   | O        | unbounded        |                           | cbc:BrandName               |

| Name                                    | Description  | Req.     | Max rep.         | Example        | XML Element                                   |
|---|--|----------|------------------|----------------|---|
| <b>Sellers ItemIdentification</b>       | <b>The sellers ID for the item</b>   | <b>O</b> | <b>1</b>         |                | <b>cac:SellersItemIdentification</b>          |
| —Sellers item identifier                | The sellers identifier for the item.   | M        | 1                | 222222         | <b>cbc:ID</b>                                 |
| <b>Manufacturers ItemIdentification</b> | <b>The manufacturers ID for the item</b>   | <b>O</b> | <b>unbounded</b> |                | <b>cac:ManufacturersItemIdentification</b>    |
| —Manufacturers item identifier          | The manufacturers identifier for the item.   | O        | 1                | Prod-01        | <b>cbc:ID</b>                                 |
| <b>Standard ItemIdentification</b>      | <b>Standardized ID for the item, e.g. GTIN</b>   | <b>O</b> | <b>1</b>         |                | <b>cac:StandardItemIdentification</b>         |
| —Items standard identifier              | A item identifier based on a registered schema.  | O        | 1                | 05704368124358 | <b>cbc:ID</b>                                 |
| <b>Document Reference</b>               | <b>Reference to a document containing Item specifications.</b>   | <b>O</b> | <b>unbounded</b> |                | <b>cac:ItemSpecificationDocumentReference</b> |
| —Attachment ID                          | A positive identification of the relevant document, such as a unique identifier.   | O        | 1                |                | <b>cbc:ID</b>                                 |
| —External Item Specifications Type      | Code for document type   | O        | 1                |                | <b>cbc:DocumentTypeCode</b>                   |
| —Attachment description                 | A short description of the document type.  | O        | 1                |                | <b>cbc:DocumentDescription</b>                |
| <b>Attachment</b>                       | <b>Information about Attachments</b>   | <b>O</b> | <b>1</b>         |                | <b>cac:Attachment</b>                         |
| —Attached object                        | The attached document embedded as binary object.   | O        | 1                |                | <b>cbc:EmbeddedDocumentBinaryObject</b>       |
| <b>External reference</b>               | <b>Information about external references, most often an URI</b>  | <b>O</b> | <b>1</b>         |                | <b>cac:ExternalReference</b>                  |
| —External item specifications           | URI reference to external item information or specifications. E.g. web address   | O        | 1                |                | <b>cbc:URI</b>                                |
| <b>Country of origin</b>                | <b>Information about Country of origin</b>   | <b>O</b> | <b>1</b>         |                | <b>cac:OriginCountry</b>                      |
| —Item origin country                    | Used to provide the country from which the item has its origin. Commonly used in cross border trade for statistical and customs purposes.            | O        | 1                | NO             | <b>cbc:IdentificationCode</b>                 |
| <b>Commodity classification</b>         | <b>A classification code used to classify the type or nature of the Item. More than one classification can be used.</b>                              | <b>O</b> | <b>unbounded</b> |                | <b>cac:CommodityClassification</b>            |
| —Commodity classification               | A classification code used to classify the type or nature of the Item. More than one classifications can be used including UNSPSC code and CPV code. | O        | 1                | 43212105       | <b>cbc:ItemClassificationCode</b>             |
| <b>Transaction conditions</b>           | <b>Used to define if the product is contracted</b>   | <b>O</b> | <b>unbounded</b> |                | <b>cac:TransactionConditions</b>              |
| —Transaction conditions                 | WhenActionCode = CT, the product is under contract.  |          | 1                |                | <b>cbc:ID</b>                                 |
| —Contracted item indicator              | Indicates that an item is offered in accordance to an existing contract.   | O        | 1                | true           | <b>cbc:ActionCode</b>                         |
| <b>Hazardous Item</b>                   | <b>Provides detail of the classification and nature of a hazardous item.</b>   | <b>O</b> | <b>unbounded</b> |                | <b>cac:HazardousItem</b>                      |

| Name                                      | Description   | Req.     | Max rep.         | Example      | XML Element                       |
|---|---|----------|------------------|--------------|-----------------------------------|
| —Hazardous UNDG code                      | Provides detail of the classification and nature of a hazardous item.   | O        | 1                |              | cbc:UNDGCode                      |
| —Hazard class identifier                  | Provides detail of the classification and nature of a hazardous item.   | O        | 1                |              | cbc:HazardClassID                 |
| <b>Classified tax category</b>            | <b>Used to provide information about in what tax category the item</b>  | <b>O</b> | <b>unbounded</b> |              | <b>cac:ClassifiedTaxCategory</b>  |
| —Item VAT category code                   | The VAT code that indicates what VAT details apply to the item.   | O        | 1                | S            | cbc:ID                            |
| —Item VAT percentage                      | The VAT percentage rate that applies to the item unless specific trade reasons apply such as exemptions.  | O        | 1                | 25           | cbc:Percent                       |
| <b>Tax scheme</b>                         | <b>Identification of tax type</b>   | <b>M</b> | <b>1</b>         |              | <b>cac:TaxScheme</b>              |
| —Tax Scheme ID                            | Tax Scheme ID =VAT  | M        | 1                | VAT          | cbc:ID                            |
| <b>Additional Item property</b>           | <b>Use for structured specification of Item Properties.<br/>Any properties of the item that can not be specied in other elements.</b>   | <b>O</b> | <b>unbounded</b> |              | <b>cac:AdditionalItemProperty</b> |
| —Property name                            | The name of the property. The name must be sufficiently descriptive to define the value. The definition may be supplemented with the property unit of measure when relevant. E.g. Size, Colour, Year. | O        | 1                | Size         | cbc:Name                          |
| —Property value                           | The value of the item property.   | O        | 1                | XXL          | cbc:Value                         |
| —Item expiry date                         | E.g. XXL, Blue, 2007.<br>Used to express the expiry date of the item or items in the line instance.   | O        |                  | 2013-06-01   |                                   |
| —Property unit of measure                 | The unit of measure in which the property value is stated, if relevant. May not be relevant when properties are descriptive.  | O        | 1                | KG           | cbc:ValueQuantity                 |
| —Minimum quantity guaranteed for delivery | The minimum quantity that is guaranteed for delivery  | O        |                  |              |                                   |
| —Property classification                  | Standardized and predefined classification of items properties.   | O        | 1                | Allergen     | cbc:ValueQualifier                |
| <b>Manufacturer</b>                       | <b>Information about the manufacturer of the Item</b>   | <b>O</b> | <b>1</b>         |              | <b>cac:ManufacturerParty</b>      |
| <b>Party name</b>                         | <b>Information about Party name</b>   | <b>O</b> | <b>1</b>         |              | <b>cac:PartyName</b>              |
| —Manufacturer party name                  | The name of the manufacturer of the item  | O        | 1                | Manufacturer | cbc:Name                          |
| <b>Item instance</b>                      | <b>Specifications of a particular instans of the item</b>   | <b>O</b> | <b>1</b>         |              | <b>cac:ItemInstance</b>           |
| —Item best before date                    | Used to express the best before date of the item or items in the line instance.   | O        | 1                | 2013-08-01   | cbc:BestBeforeDate                |
| <b>Lot identification</b>                 | <b>Information about the production lot of the item</b>   | <b>O</b> | <b>1</b>         |              | <b>cac:LotIdentification</b>      |
| —Item batch identifier                    | Identifies the production batch that the item(s) listed in the catalogue line were part of.   | O        | 1                | B-10         | cbc:LotNumberID                   |
| <b>Certificate</b>                        | <b>Environmental labelling or other type of certificate</b>   | <b>O</b> | <b>unbounded</b> |              | <b>cac:Certificate</b>            |
| —Label name                               | The name of the product label.  | O        | 1                | NEO          | cbc:ID                            |



| Name                         | Description  | Req.     | Max rep.         | Example     | XML Element                    |
|------------------------------|--|----------|------------------|-------------|--------------------------------|
| —Certificate Type code       | The code type for the label  | O        | 1                | EcoLabel    | <b>cbc:CertificateTypeCode</b> |
| —Label type                  | The label type such environmental, quality, social etc.  | O        | 1                | EcoLabel    | <b>cbc:CertificateType</b>     |
| —Label value                 | The label value that applies to the item.  | O        | 1                | Svanemerket | <b>cbc:Remarks</b>             |
| — <b>Issuer</b>              | <b>Information about issuer</b>  | <b>M</b> | <b>1</b>         |             | <b>cac:IssuerParty</b>         |
| — <b>Name</b>                | <b>Information about issuer name</b>   | <b>O</b> | <b>1</b>         |             | <b>cac:PartyName</b>           |
| —Issuer name                 | Name of Label issuer   | O        | 1                | Svanemerket | <b>cbc:Name</b>                |
| — <b>Document reference</b>  | <b>Information about Document reference</b>  | <b>O</b> | <b>unbounded</b> |             | <b>cac:DocumentReference</b>   |
| —Label reference             | A reference to where the label specification can be found, e.g. a URI.                                   | O        | 1                |             | <b>cbc:ID</b>                  |
| — <b>Dimension</b>           | <b>Information about measurements</b>  | <b>O</b> | <b>unbounded</b> |             | <b>cac:Dimension</b>           |
| —Dimension ID                | Possible values: Weight, Height, Length, Width, Minimum Storage Temperature, Maximum Storage Temperature | O        | 1                | Weight      | <b>cbc:AttributeID</b>         |
| —Height                      | The vertical height of the orderable unit.   | O        | 1                | 10          | <b>cbc:Measure</b>             |
| —Length                      | The horizontal measure of the longer side of the orderable unit.   | O        |                  |             |                                |
| —Width                       | The horizontal measure of the shorter side of the orderable unit.  | O        |                  |             |                                |
| —Weight                      | The weight of the orderable unit including its packaging.  | O        |                  |             |                                |
| —Minimum storage temperature | The lower margin of the recommended storage temperature range for the item.                              | O        | 1                |             | <b>cbc:MinimumMeasure</b>      |
| —Maximum storage temperature | The upper margin of the recommended storage temperature range for the item.                              | O        | 1                |             | <b>cbc:MaximumMeasure</b>      |

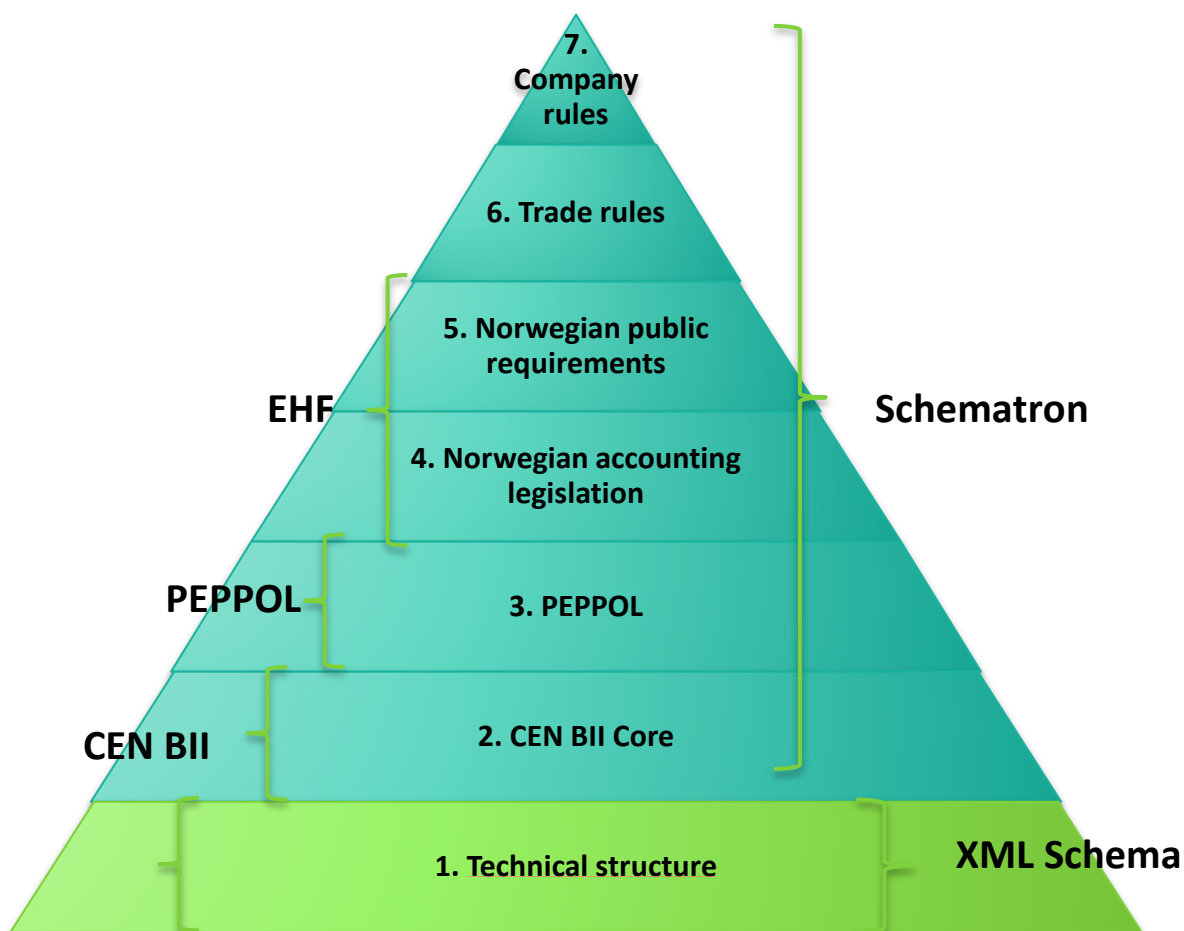
## 7.2 INFORMATION CONTENT CATALOGUE RESPONSE

| Name                          | Description  | Req.     | Max rep. | Example   | XML Element                    |
|-------------------------------|--|----------|----------|---|--------------------------------|
| <b>EHF Catalogue Response</b> | <b>Format for Catalogue Response based on CEN BII</b>  |          |          |   | <b>ApplicationResponse</b>     |
| — Customization identifier    | Identifies the specification of content and rules that apply to the transaction.   | M        | 1        | urn:www.cenbii.eu:transaction:biitrns058:ver2.0:<br>extended:urn:www.peppol.eu:bis:peppol1a:ver2.0:<br>extended:urn:www.difi.no:ehf:katalogbekreftelse:<br>ver1.0 | <b>cbc:CustomizationID</b>     |
| — Profile identifier          | Identifies the BII profile or business process context in which the transaction appears.   | M        | 1        | urn:www.cenbii.eu:profile:bii01:ver2.0  | <b>cbc:ProfileID</b>           |
| — Response 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. | M        | 1        | 1   | <b>cbc:ID</b>                  |
| — Response issue date         | The date on which the transaction instance was issued.   | M        | 1        | 2013-05-10  | <b>cbc:IssueDate</b>           |
| — Response issue data         | The time at which the transaction instance was issued.   | O        | 1        |   | <b>cbc:IssueTime</b>           |
| — Response textual notes      | Used to make any comments or instructions relevant to the response, including the date that the reported decision becomes effective.   | O        | 1        |   | <b>cbc:Note</b>                |
| <b>— SenderParty</b>          | <b>Information about message sender</b>  | <b>M</b> | <b>1</b> |   | <b>cac:SenderParty</b>         |
| — Electronic address          | A response may contain the party electronic address. The address can be of any format and the format should be identified in the message.  | R        | 1        |   | <b>cbc:EndpointID</b>          |
| <b>— Party Identification</b> | <b>Information about Party ID</b>  | <b>O</b> | <b>1</b> |   | <b>cac:PartyIdentification</b> |
| — Party identifier            | It should be possible to specify the identifier or identifiers for the party.  | R        | 1        | 923654321   | <b>cbc:ID</b>                  |
| <b>— Party Name</b>           | <b>Information about Party Name</b>  | <b>O</b> | <b>1</b> |   | <b>cac:PartyName</b>           |
| — Party name                  | The name of the party sending the response.  | R        | 1        | Buyer   | <b>cbc:Name</b>                |
| <b>— ReceiverParty</b>        | <b>Information about message receiver</b>  | <b>M</b> | <b>1</b> |   | <b>cac:ReceiverParty</b>       |
| — Electronic address          | A response may contain the party electronic address. The address can be of any format and the format should be identified in the message.  | R        | 1        |   | <b>cbc:EndpointID</b>          |
| <b>— Party Identification</b> | <b>Information about PartyID</b>   | <b>O</b> | <b>1</b> |   | <b>cac:PartyIdentification</b> |
| — Party identifier            | It should be possible to specify the identifier or identifiers for the party.  | R        | 1        | 123456789   | <b>cbc:ID</b>                  |
| <b>— Party Name</b>           | <b>Information about Party Name</b>  | <b>O</b> | <b>1</b> |   | <b>cac:PartyName</b>           |
| — Party name                  | The name of the party receiving the response.  | R        | 1        | Supplier  | <b>cbc:Name</b>                |
| <b>— DocumentResponse</b>     | <b>Information about the reason code</b>   | <b>O</b> | <b>1</b> |   | <b>cac:DocumentResponse</b>    |
| — Response                    | <b>Responseinformation</b>   | <b>M</b> | <b>1</b> |   | <b>cac:Response</b>            |

| Name  | Description   | Req.     | Max rep. | Example      | XML Element                  |
|---|---|----------|----------|--------------|------------------------------|
| <ul style="list-style-type: none"> <li>Coded decision</li> </ul>            | A code for the description of the response to the transaction document.<br>AP= Accepted, RE = Rejected, UN/Cefact 4343 Response type code | M        | 1        | AP           | <b>cbc:ResponseCode</b>      |
| <ul style="list-style-type: none"> <li><b>Document Reference</b></li> </ul> | <b>Document Reference information</b>   | <b>M</b> | <b>1</b> |              | <b>cac:DocumentReference</b> |
| <ul style="list-style-type: none"> <li>Document identifier</li> </ul>       | Identifies the document being referred to.  | M        | 1        | Catalogue-01 | <b>cbc:ID</b>                |
| <ul style="list-style-type: none"> <li>Document version</li> </ul>          | The version of the document that has been identified with the document identifier.  | O        | 1        | 1            | <b>cbc:VersionID</b>         |

## 8 VALIDATION

To optimize the flexibility in the validation process, each EHF document is validated in different stages with shifting focus in every stage. The pyramid below illustrates the different stages.



### 8.1 VALIDATION PRINCIPLES

Stages in the validation process:

1. Validation of syntax against UBL 2.1 Schema, for example:
  - Tag names and attributes must be correctly written and follow the UBL 2.1 sequence
  - All UBL 2.1 mandatory tag names must be present.
  - The element's contents must be according to the element's type definition.
2. Validation against CEN BII Core to verify that the message is according to international requirements, like:
  - Valid codes for currencies, countries, tax etc.
  - Mandatory tag names according to CEN BII Core.
  - Logical correlations between information element, i.e. that start date is at least lower than end date, sub totals must be totaled, multiplications give the correct result etc.
3. Validation against PEPPOL (EU) rules and regulations

4. Validation against Norwegian accounting legislation, like:
  - Organisation number must be specified for the seller/supplier.
5. Validation against Norwegian public requirements, like:
  - «Your ref» must be specified.
  - Addresses, postal zone number and post office/city must be specified for the buyer/customer.

Validation stage 6 and 7 is decided upon by the trading parties if deemed necessary.

## 8.2 DYNAMIC VALIDATION

The combination of ProfileID and CustomizationID in an XML document defines the validation rules applied to the document.

CustomizationID may be extended with more elements for specific trade or business validation rules.

### 8.3 VALIDATION RULES PER PROFILEID AND CUSTOMIZATIONID

The table below shows the validation rules for ProfileID and CustomizationID. The specific validation rules are described in Chapter 8.4.

#### 8.3.1 PROFILEID BII01, CATALOGUE

| Document                  | Norwegian receiver | Norwegian sender | Profile ID                             | Customization ID  | Validation rules   |
|---------------------------|--------------------|------------------|--|---|--|
| <b>Catalogue</b>          | Yes                | Yes              | urn:www.cenbii.eu:profile:bii01:ver2.0 | urn:www.cenbii.eu:transaction:biitrns019:ver2.0:<br>extended:urn:www.peppol.eu:bis:peppol1a:ver2.0<br>: extended:urn:www.difi.no:ehf:katalog:ver1.0               | Validation against UBL 2.1 Catalogue Schema and business rules for BII and Norway.           |
| <b>Catalogue</b>          | Yes                | No               | urn:www.cenbii.eu:profile:bii01:ver2.0 | urn:www.cenbii.eu:transaction:biitrns019:ver2.0:<br>extended:urn:www.peppol.eu:bis:peppol1a:ver2.0  | Validation against UBL 2.1 Catalogue Schema and business rules for BII and Peppol.           |
| <b>Catalogue</b>          | No                 | Yes              | urn:www.cenbii.eu:profile:bii01:ver2.0 | urn:www.cenbii.eu:transaction:biitrns019:ver2.0:<br>extended:urn:www.peppol.eu:bis:peppol1a:ver2.0  | Validation against UBL 2.1 Catalogue Schema and business rules for BII and Peppol.           |
| <b>Catalogue Response</b> | Yes                | Yes              | urn:www.cenbii.eu:profile:bii01:ver2.0 | urn:www.cenbii.eu:transaction:biitrns058:ver2.0:<br>extended:urn:www.peppol.eu:bis:peppol1a:ver2.0<br>:extended:urn:www.difi.no:ehf:katalogbekreftelse:<br>ver1.0 | Validation against UBL 2.1 ApplicationResponse Schema and business rules for BII and Norway. |
| <b>Catalogue Response</b> | Yes                | No               | urn:www.cenbii.eu:profile:bii01:ver2.0 | urn:www.cenbii.eu:transaction:biitrns058:ver2.0:<br>extended:urn:www.peppol.eu:bis:peppol1a:ver2.0  | Validation against UBL 2.1 ApplicationResponse Schema and business rules for BII and Peppol. |
| <b>Catalogue Response</b> | No                 | Yes              | urn:www.cenbii.eu:profile:bii01:ver2.0 | urn:www.cenbii.eu:transaction:biitrns058:ver2.0:<br>extended:urn:www.peppol.eu:bis:peppol1a:ver2.0  | Validation against UBL 2.1 ApplicationResponse Schema and business rules for BII and Peppol. |

## 8.4 VALIDATION RULES

The 2 tables below show the validation rules that apply to the Catalogue and Catalogue Response.

Description of the table columns:

- **Element**      The data element that the rule applies to.
- **Rule**          Business rule description.
- **Message**      Each rule has its own message.
- **E/W**            Severity. E=Error, the document is rejected. W=Warning, the document should be passed on.
- **RuleID**        Identification of validation stage:
  - BII → CEN BII
  - EU → PEPPOL
  - PCL → Rules related to PEPPOL code lists
  - NONAT → Norwegian accounting legislation
  - NOGOV → Norwegian public requirements
  - CL → Rules related to general code lists

### 8.4.1 CATALOGUE

| Element                | Rule                                   | Message  | E/W | Rule ID       |
|------------------------|--|--|-----|---------------|
| <b>CustomizationID</b> | The element must be present.           | A catalogue MUST have a customization identifier           | E   | BII2-T19-R001 |
| <b>ProfileID</b>       | The element must be present.           | A catalogue MUST have a profile identifier                 | E   | BII2-T19-R002 |
| <b>IssueDate</b>       | The element must be present.           | A catalogue MUST have a document issue date                | E   | BII2-T19-R003 |
| <b>CatalogueID</b>     | The Catalogue must have an identifier. | A catalogue MUST contain the catalogue document identifier | E   | BII2-T19-R004 |
| <b>ProviderParty</b>   | Catalogue provider must be present.    | The party providing the catalogue MUST be specified        | E   | BII2-T19-R007 |

| Element  | Rule  | Message   | E/W | Rule ID       |
|--|---|---|-----|---------------|
| <b>ReceiverParty</b>   | Catalogue receiver must be present  | The party receiving the catalogue MUST be specified   | E   | BII2-T19-R008 |
| <b>SellerSupplierParty</b>   | A Catalogue must have only <u>one</u> Supplier.   | A catalogue MUST have maximum one catalogue supplier  | E   | BII2-T19-R009 |
| <b>ProviderParty</b>   | Catalogue provider must be identified by name or ID.  | A catalogue provider MUST contain the full name or an identifier  | E   | BII2-T19-R010 |
| <b>ReceiverParty</b>   | Catalogue receiver must be identified by name or ID.  | A catalogue receiver MUST contain the full name or an identifier  | E   | BII2-T19-R011 |
| <b>SellerSupplierParty</b>   | Supplier must be identified by name or ID.  | A catalogue supplier MUST contain the full name or an identifier  | E   | BII2-T19-R012 |
| <b>ContractorCustomerParty</b>                                       | Customer must be identified by name or ID.  | A catalogue customer MUST contain the full name or an identifier  | E   | BII2-T19-R013 |
| <b>SellerSupplierParty</b>   | Suppliers Postal address should contain Address line, City, Post code and Country code.   | A catalogue supplier postal address SHOULD have at least all of the following: - Address line - City - Post code                                  | E   | BII2-T19-R014 |
| <b>Item/Price</b>  | Prices must not be negative.  | Prices of items MUST not be negative  | E   | BII2-T19-R015 |
| <b>LineItem/ValidityPeriod</b>                                       | Catalogue line validity period must be within the range of the whole catalogue validity period  | Catalogue line validity period MUST be within the range of the whole catalogue validity period  | E   | BII2-T19-R017 |
| <b>Item/Price</b>  | Price validity period must be within the range of the whole catalogue line validity period  | Price validity period MUST be within the range of the whole catalogue line validity period  | E   | BII2-T19-R018 |
| <b>Item/Name</b>   | An item in a catalogue line should have a name  | An item in a catalogue line SHOULD have a name  | W   | BII2-T19-R019 |
| <b>Item/SellersItemIdentification or StandardItemIdentification)</b> | An item in a catalogue line must be uniquely identifiable by at least one of the following: Suppliers identifier or Standard identifier | An item in a catalogue line MUST be uniquely identifiable by at least one of the following: - Catalogue Provider identifier - Standard identifier | E   | BII2-T19-R020 |



| Element   | Rule  | Message  | E/W | Rule ID        |
|---|---|--|-----|----------------|
| <b>Item/StandardItemIdentification</b>                        | Standard Identifiers should contain the Schema Identifier (e.g. GTIN)   | Standard Identifiers SHOULD contain the Schema Identifier (e.g. GTIN)  | W   | BII2-T19-R021  |
| <b>Item/ItemClassificationCode</b>                            | Classification codes should contain the Classification scheme Identifier (e.g. CPV or UNSPSC)   | Classification codes SHOULD contain the Classification scheme Identifier (e.g. CPV or UNSPSC)  | W   | BII2-T19-R022  |
| <b>CatalogueLine</b>  | A Catalogue must have at least one catalogue line   | A catalogue MUST have at least one catalogue line  | E   | BII2-T19-R023  |
| <b>LineItem/ID</b>  | A catalogue line must contain a unique line identifier  | A catalogue line MUST contain a unique line identifier   | E   | BII2-T19-R024  |
| <b>LineItem/ContentUnitQuantity</b>                           | Orderable quantities must be greater than zero  | Orderable quantities MUST be greater than zero   | E   | BII2-T19-R026  |
| <b>Item/AdditionalItemProperty</b>                            | An item property data name must specify a data value  | An item property data name MUST specify a data value   | E   | BII2-T19-R027  |
| <b>LineItem/MaximumOrderQuantity</b>                          | Maximum quantity must be greater than zero  | Maximum quantity MUST be greater than zero   | E   | BII2-T19-R029  |
| <b>MinimumOrderQuantity</b>                                   | Minimum quantity must be greater than zero  | Minimum quantity MUST be greater than zero   | E   | BII2-T19-R030  |
| <b>LineItem/MaximumOrderQuantity and MinimumOrderQuantity</b> | Maximum quantity must be greater or equal to the Minimum quantity   | Maximum quantity MUST be greater or equal to the Minimum quantity  | E   | BII2-T19-R031  |
| <b>EndpointID</b>   | An endpoint identifier must have a scheme identifier attribute  | An endpoint identifier MUST have a scheme identifier attribute   | E   | EUGEN-T19-R043 |
| <b>PartyIdentification/ID</b>                                 | A party identifier must have a scheme identifier attribute  | A party identifier MUST have a scheme identifier attribute   | E   | EUGEN-T19-R043 |
| <b>../CatalogueLine/ActionCode</b>                            | A catalogue line action code MUST be according to the code list "ACTIONCODE:BII2", and the listID must have the value "ACTIONCODE:BII2" | A catalogue line action code MUST be according to the code list "ACTIONCODE:BII2", and the listID must have the value "ACTIONCODE:BII2". | E   | EUGEN-T19-R045 |

| Element                           | Rule   | Message  | E/W | Rule ID        |
|-----------------------------------|--|--|-----|----------------|
| <b>Catalogue/ActionCode</b>       | A catalogue header action code MUST be according to the code list "ACTIONCODE:PEPPOL", and the listID must have the value "ACTIONCODE:PEPPOL". | A catalogue header action code MUST be according to the code list "ACTIONCODE:PEPPOL", and the listID must have the value "ACTIONCODE:PEPPOL". | E   | EUGEN-T19-R046 |
| <b>Country/IdentificationCode</b> | All country identification code MUST have a listID="ISO3166-1:Alpha2" and the code MUST be from this list.                                     | All country identification code MUST have a listID="ISO3166-1:Alpha2" and the code MUST be from this list.                                     | E   | EUGEN-T19-R047 |
| <b>@unitCode</b>                  | A unit code attribute MUST have a unit code list identifier attribute "UNECERec20", and the code must be from this list                        | A unit code attribute MUST have a unit code list identifier attribute "UNECERec20", and the code must be from this list                        | E   | EUGEN-T19-R048 |
| <b>ClassifiedTaxCategory/ID</b>   | A classified tax category identifier must be according to code list "UNECE5305".   | A classified tax category identifier MUST be according to code list "UNECE5305".   | E   | EUGEN-T19-R049 |
| <b>PackLevelCode</b>              | A package level code must be according to code list "GS17009:PEPPOL".  | A package level code MUST be according to code list "GS17009:PEPPOL".  | E   | EUGEN-T19-R050 |
| <b>UNDGCode</b>                   | A UNDG code must be according to code list "UNCL8273".   | A UNDG code MUST be according to code list "UNCL8273".   | E   | EUGEN-T19-R051 |

## 8.4.2 CATALOGUE RESPONSE

| Element                       | Rule  | Message  | E/W | Rule ID        |
|-------------------------------|---|--|-----|----------------|
| <b>ProfileID</b>              | The element must be present.  | A catalogue response MUST have a profile identifier                              | E   | BII2-T19-R001  |
| <b>CustomizationID</b>        | The element must be present.  | A catalogue response MUST have a customization identifier                        | E   | BII2-T19-R002  |
| <b>IssueDate</b>              | The element must be present.  | A catalogue response MUST have a document issue date                             | E   | BII2-T19-R003  |
| <b>ID</b>                     | The Catalogue Response must have the catalogue document identifier. | A catalogue response MUST contain  | E   | BII2-T19-R004  |
| <b>ProviderParty</b>          | Catalogue Response provider must be present.                        | The party providing the catalogue response MUST be specified                     | E   | BII2-T19-R005  |
| <b>ReceiverParty</b>          | Catalogue Response receiver must be present                         | The party receiving the catalogue response MUST be specified                     | E   | BII2-T19-R006  |
| <b>ProviderParty</b>          | Catalogue Response provider must be identified by name or ID.       | A catalogue response receiving party MUST contain the full name or an identifier | E   | BII2-T19-R007  |
| <b>ReceiverParty</b>          | Catalogue Response receiver must be identified by name or ID.       | A catalogue response sending party MUST contain the full name or an identifier   | E   | BII2-T19-R008  |
| <b>ResponseCode</b>           | A catalogue response must contain a response decision               | A catalogue response MUST contain a response decision                            | E   | BII2-T19-R009  |
| <b>DocumentReference/ID</b>   | A catalogue response must contain a document reference              | A catalogue response MUST contain a document reference                           | E   | BII2-T19-R010  |
| <b>EndpointID</b>             | An endpoint identifier must have a scheme identifier attribute      | An endpoint identifier MUST have a scheme identifier attribute                   | E   | EUGEN-T58-R001 |
| <b>PartyIdentification/ID</b> | A party identifier must have a scheme identifier attribute          | A party identifier MUST have a scheme identifier attribute                       | E   | EUGEN-T58-R002 |

## 9 ATTACHMENTS

### 9.1 ATTACHMENT 1 – STRUCTURE TABLES

Attachment 1 provides a structured overview of EHF Catalogue and Catalogue Response.

### 9.2 ATTACHMENT 2 – MESSAGE TABLES

Attachment 2 contains a Message table with all elements and attributes in EHF Catalogue and Catalogue Response.

### 9.3 ATTACHMENT 3 – CODE LISTS

Attachment 3 consists of code lists for the Catalogue formats. These are based on "BII\_codelists-v1.00".

### 9.4 ATTACHMENT 4 - UBL 2.1 SCHEMA

Attachment 5 consists of link to XSD for UBL 2.1 Schema. These are the only xsd's being published for EHF Catalogue.

### 9.5 ATTACHMENT 5 – SCHEMATRON FILES

Attachment 5 contains the schematron files being used in the validation of EHF Catalogue and Catalogue Response messages. These are based on business rules defined by CEN BII.

### 9.6 ATTACHMENT 6 – EXAMPLE FILES

Attachment 6 contains example messages.