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DRAFT

Extract from IMPLEMENTATION GUIDE
TRANSACTION "YARN DYEING REQUEST"

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technical Documentation: <http://www.ebiz.enea.it>

XML Schemas repository: <http://www.ebiz.enea.it/moda-ml/repository/schema/draft/default.asp>

Guides repository: <http://www.ebiz.enea.it/moda-ml/repository/guide/draft/default.asp>

Guide filename: G050-eBIZ-YarnDyeingRequest.pdf

0. PREMISE

This document contains a proposal for the updating and extension of eBIZ specifications starting from the eBIZ version 2018. Under the name of 'Draft version' it is reported the result of an extensive work of analysis and consultation aimed at developing and maintaining eBIZ specifications.

In particular, the content of this proposal is the result of various activities, mainly those carried out within the framework of the **TRICK project** funded by the European Commission: grant agreement 958352, call H2020-LOW-CARBON-CIRCULAR-INDUSTRIES-2020 / H2020-LCCI-2020-EASME-twostage.

The technical contents are backwards compatible with the latest official published version, with the exclusion of the totally new concepts added explicitly for the version that are thought as incremental evolution of the knowledge base.

1. BUSINESS DESCRIPTION

1.1 Scope

The present guide has been issued to assist the companies of the Textile-Clothing sector in the implementation of the standard XML document "YARN DYEING REQUEST", providing all the instruction required for its use in the context of e-commerce between Subcontractors and their Customers shown in the enclosed diagram
All the rules required for the construction and validation of the document are embedded into the specific XML-Schema, which is detailed in section "Implementation guide".

1.2 Generalities

The Request is used by a Yarn Producer to request from a Subcontractor an Offer for the dyeing of a yarn.

The Request is structured in four levels:

Macro-type of Work Requested = document root (7 types of Request)

Product Family = document qualifier (type of product with reference to the manufacturing process; e.g.: combed yarn, jacquard weaved fabric, ..)

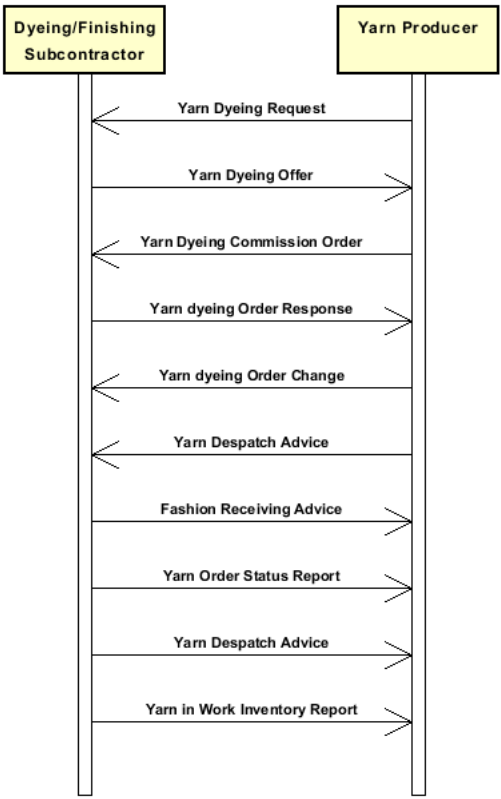
Product Specifications = "xxxSpecs" (technical characteristics and properties of the product)

Operations requested 0 "XXXMnfrOperation" (details of the works requested)

Quantities, unit measures and prices must be referred to the third level (Line Item)

1.3. Possible scenario

Subcontracted yarn dyeing



2. IMPLEMENTATION GUIDE

2.1 General structure of XML document

All the business data that can be exchanged through this class of documents are shown in the following "document structure", that provides a simplified vision of the Schema.

In particular:

- the two numbers following each element define its "cardinality" (minimum and maximum number of occurrences); the minimum equal zero indicates that the element is optional, the minimum greater than zero indicates that is mandatory;
- the bold character denotes the complex elements (aggregates of simple elements) that were built for the sake of functionality and re-usability of some complex informations sets. The child elements in each parent element are easily spotted as "indented";
- the symbol "@" denotes an attribute of the preceding element; here "the usage indicator (optional, required, ...)" is shown in square brackets.

Structure

YARNDyeRequest

```
@msgfunction [Optional] [Default= OR]
@yarnProcQualifier [Required]
@version [Optional] [Default= 2018-1]
@useProfile [Optional]
| RQheader 1-1
| | msgN 1-1
| | - choose -
| | | msgID 0-1
| | | - or -
| | | docID 0-1
| | | @numberingOrg [Optional]
| | | - end choose -
| | | msgDate 1-1
| | | @dateForm [Optional]
| | | season 0-1
| | | @numberingOrg [Optional]
| | | @codeList [Optional]
| | | @listName [Optional]
| | | @listVersion [Optional]
| | | validityStart 0-1
| | | @dateForm [Optional]
| | | validityEnd 1-1
| | | @dateForm [Optional]
| | | refDoc 0-9
| | | @docType [Required]
| | | | docID 1-2
| | | | @numberingOrg [Optional]
| | | | docDate 0-1
| | | | @dateForm [Optional]
| | | | season 0-1
| | | | @numberingOrg [Optional]
| | | | @codeList [Optional]
| | | | @listName [Optional]
| | | | @listVersion [Optional]
| | | | itemID 0-1
| | | | attachment 0-1
| | | | @uid [Optional]
| | | | | fileName 0-1
| | | | | @numberingOrg [Optional]
| | | | | binaryObject 0-1
| | | | | @format [Optional]
| | | | | @mime [Optional]
| | | | | @encoding [Optional]
| | | | | @characterSet [Optional]
| | | | | externalReference 0-99
| | | | | uri 1-1
| | | | | @isURL [Optional] [Default= true]
| | | | | mimeTypeCode 0-1
```

| | | | formatCode 0-1
| | | | encodingCode 0-1
| | | | characterSetCode 0-1

buyer 1-1

| @logo [Optional]
| @sender [Optional]
| | id 1-1
| | | @numberingOrg [Optional]
| | additionalIdentifier 0-9
| | | @numberingOrg [Optional]
| | | @idQualifier [Optional]
| | legalName 0-1
| | dept 0-1
| | subDept 0-1
| | person 0-1
| | | @email [Optional]
| | | @phone [Optional]
| | | @fax [Optional]
| | street 0-1
| | city 0-1
| | subCountry 0-1
| | country 0-1
| | postCode 0-1
| | **geoCoordinates 0-1**
| | | @um [Optional] [Default= DEGD]
| | | @geoReferenceSystem [Optional]
| | | | xGeoCoord 1-1
| | | | yGeoCoord 1-1
| | | | zGeoCoord 0-0

- choose -

supplier 0-1

| @logo [Optional]
| @sender [Optional]
| | id 1-1
| | | @numberingOrg [Optional]
| | additionalIdentifier 0-9
| | | @numberingOrg [Optional]
| | | @idQualifier [Optional]
| | legalName 0-1
| | dept 0-1
| | subDept 0-1
| | person 0-1
| | | @email [Optional]
| | | @phone [Optional]
| | | @fax [Optional]
| | street 0-1
| | city 0-1
| | subCountry 0-1
| | country 0-1
| | postCode 0-1
| | **geoCoordinates 0-1**
| | | @um [Optional] [Default= DEGD]
| | | @geoReferenceSystem [Optional]
| | | | xGeoCoord 1-1
| | | | yGeoCoord 1-1
| | | | zGeoCoord 0-0

- or -

subContractor 0-1

| @sender [Optional]
| | id 1-1
| | | @numberingOrg [Optional]
| | legalName 0-1
| | dept 0-1
| | subDept 0-1
| | person 0-1
| | | @email [Optional]
| | | @phone [Optional]
| | | @fax [Optional]

```

| | | street 0-1
| | | city 0-1
| | | subCountry 0-1
| | | country 0-1
| | | postCode 0-1
| | | geoCoordinates 0-1
| | |   @um [Optional] [Default= DEGD]
| | |   @geoReferenceSystem [Optional]
| | |     | xGeoCoord 1-1
| | |     | yGeoCoord 1-1
| | |     | zGeoCoord 0-0

```

- end choose -

```

| | thirdParty 0-5
| |   @VAT [Optional]
| |   @role [Required]
| |   @sender [Optional]
| |     | id 1-1
| |     |   @numberingOrg [Optional]
| |     | legalName 0-1
| |     | dept 0-1
| |     | subDept 0-1
| |     | person 0-1
| |     |   @email [Optional]
| |     |   @phone [Optional]
| |     |   @fax [Optional]
| |     | street 0-1
| |     | city 0-1
| |     | subCountry 0-1
| |     | country 0-1
| |     | postCode 0-1
| |     | geoCoordinates 0-1
| |     |   @um [Optional] [Default= DEGD]
| |     |   @geoReferenceSystem [Optional]
| |     |     | xGeoCoord 1-1
| |     |     | yGeoCoord 1-1
| |     |     | zGeoCoord 0-0
| | note 0-99
| |   @numberingOrg [Optional]
| |   @codeList [Optional]
| |   @noteLabel [Optional]

```

| terms 0-1

```

| | payment 0-5
| |   @finDiscount [Optional]
| |   @finSurcharge [Optional]
| |   - choose -
| |     | payTerm 1-1
| |     - or -
| |     | payTermText 1-1
| |     - end choose -
| |     | payMode 0-1
| | insPayment 0-5
| |   @part [Required]
| |   - choose -
| |     | payTerm 1-1
| |     - or -
| |     | payTermText 1-1
| |     - end choose -
| |     | payMode 0-1
| | trade 0-1
| |   - choose -
| |     | incoTermText 1-1
| |     - or -
| |     | incoTerm 1-1
| |     - end choose -
| |     | location 0-1
| |     | @LRI [Optional]
| | transInfo 0-5

```

```

| | @transReason [Optional]
| | @progr [Optional]
| | | transMode 1-1
| | | carrier 0-1
| | - choose -
| | | deliveryLocation 0-1
| | | | location 0-1
| | | | | @LRI [Optional]
| | | | | legalName 0-1
| | | | | dept 0-1
| | | | | subDept 0-1
| | | | | person 0-1
| | | | | | @email [Optional]
| | | | | | @phone [Optional]
| | | | | | @fax [Optional]
| | | | | street 0-1
| | | | | city 0-1
| | | | | subCountry 0-1
| | | | | country 0-1
| | | | | postCode 0-1
| | | | | geoCoordinates 0-1
| | | | | | @um [Optional] [Default= DEGD]
| | | | | | @geoReferenceSystem [Optional]
| | | | | | | xGeoCoord 1-1
| | | | | | | yGeoCoord 1-1
| | | | | | | zGeoCoord 0-0
| | - or -
| | | deliveryPlace 0-1
| | - end choose -
| | | grossWeight 0-1
| | | | @um [Required]
| | | netWeight 0-1
| | | | @um [Required]
| | | transMeans 0-1
| | | | @propulsionSystemCode [Optional]
| | | transCondition 0-3
| | | transConditionText 0-1
| | - choose -
| | | despatchPlace 0-1
| | - or -
| | | despatchLocation 0-1
| | | | legalName 0-1
| | | | dept 0-1
| | | | subDept 0-1
| | | | person 0-1
| | | | | @email [Optional]
| | | | | @phone [Optional]
| | | | | @fax [Optional]
| | | | | street 0-1
| | | | | city 0-1
| | | | | subCountry 0-1
| | | | | country 0-1
| | | | | postCode 0-1
| | | | | geoCoordinates 0-1
| | | | | | @um [Optional] [Default= DEGD]
| | | | | | @geoReferenceSystem [Optional]
| | | | | | | xGeoCoord 1-1
| | | | | | | yGeoCoord 1-1
| | | | | | | zGeoCoord 0-0
| | - end choose -
| | | despatchDate 0-1
| | | | @dateForm [Optional]
| | | delEffectiveDate 0-1
| | | | @dateForm [Optional]
| | | routeLength 0-1
| | | | @um [Required]
| | allowanceCharge 0-9
| | | @um [Optional]

```

```

| | @VAT [Optional]
| | @minQty [Optional]
| | @currency [Optional]
| | @maxQty [Optional]
| | @isCharge [Optional]
| | - choose -
| | | AC_category 1-1
| | - or -
| | | AC_categoryText 1-1
| | - end choose -
| | - choose -
| | | AC_percent 1-1
| | - or -
| | | AC_amount 1-1
| | | @currency [Optional]
| | - end choose -
| | | dtScheme 0-1
| | | @taxType [Required]
| | | taxCategory 0-1
| | | taxRate 0-1
| | | legalRef 0-1
| | | @numberingOrg [Optional]
| | | @codeList [Optional]
| | | @listName [Optional]
| | | @listVersion [Optional]
| | | note 0-99
| | | @numberingOrg [Optional]
| | | @codeList [Optional]
| | | @noteLabel [Optional]

```

YDRQbody 1-1

```

| | YDRQitem 1-unbounded
| | | lineN 1-1
| | | @VAT [Optional]
| | | yarnCompos 0-1
| | | | percCompos 1-9
| | | | @fibre [Required]
| | | | @materialSource [Optional]
| | | | @recyclingProcessMethod [Optional]
| | | | @percSourcesRenewable [Optional]
| | | yarnSpecs 0-99
| | | - choose -
| | | | yarnCharText 1-1
| | | - or -
| | | | yarnChar 1-1
| | | - end choose -
| | | | experimValue 0-1
| | | | @um [Optional]
| | | | @method [Optional]
| | | | @application [Optional]
| | | | @idCO [Optional]
| | | | specValue 0-1
| | | | @um [Optional]
| | | | @source [Optional]
| | | | @method [Optional]
| | | | @application [Optional]
| | | | @CV [Optional]
| | | - choose -
| | | | tolerance 0-2
| | | | @um [Required]
| | | - or -
| | | | pcTolerance 0-2
| | | | @um [Optional]
| | | - end choose -
| | | qty 1-2
| | | @um [Required]
| | | deliveryDate 1-1
| | | @dateForm [Optional]

```



```

| | | notBeforeDate 0-1
| | |   @dateForm [Optional]
| | | thirdParty 0-3
| | |   @VAT [Optional]
| | |   @role [Required]
| | |   @sender [Optional]
| | |     | id 1-1
| | |     |   @numberingOrg [Optional]
| | |     | legalName 0-1
| | |     | dept 0-1
| | |     | subDept 0-1
| | |     | person 0-1
| | |     |   @email [Optional]
| | |     |   @phone [Optional]
| | |     |   @fax [Optional]
| | |     | street 0-1
| | |     | city 0-1
| | |     | subCountry 0-1
| | |     | country 0-1
| | |     | postCode 0-1
| | |     | geoCoordinates 0-1
| | |     |   @um [Optional] [Default= DEGD]
| | |     |   @geoReferenceSystem [Optional]
| | |     |     | xGeoCoord 1-1
| | |     |     | yGeoCoord 1-1
| | |     |     | zGeoCoord 0-0
| | | yarnMnfrOperation 1-9
| | |   - choose -
| | |     | jobName 1-1
| | |   - or -
| | |     | yarnJob 1-1
| | |   - end choose -
| | |     | yarnJobTech 0-1
| | |     | refDoc 0-9
| | |     |   @docType [Required]
| | |     |     | docID 1-2
| | |     |     |   @numberingOrg [Optional]
| | |     |     | docDate 0-1
| | |     |     |   @dateForm [Optional]
| | |     |     | season 0-1
| | |     |     |   @numberingOrg [Optional]
| | |     |     |   @codeList [Optional]
| | |     |     |   @listName [Optional]
| | |     |     |   @listVersion [Optional]
| | |     |     | itemID 0-1
| | |     |     | attachment 0-1
| | |     |     |   @uid [Optional]
| | |     |     |     | fileName 0-1
| | |     |     |     |   @numberingOrg [Optional]
| | |     |     |     | binaryObject 0-1
| | |     |     |     |   @format [Optional]
| | |     |     |     |   @mime [Optional]
| | |     |     |     |   @encoding [Optional]
| | |     |     |     |   @characterSet [Optional]
| | |     |     |     | externalReference 0-99
| | |     |     |     |   uri 1-1
| | |     |     |     |     | @isURL [Optional] [Default= true]
| | |     |     |     |     | mimeTypeCode 0-1
| | |     |     |     |     | formatCode 0-1
| | |     |     |     |     | encodingCode 0-1
| | |     |     |     |     | characterSetCode 0-1
| | |     | yarnMachine 0-1
| | |     | yarnMachineSpecs 0-9
| | |     |   yarnMachineParam 1-1
| | |     |   specValue 0-1
| | |     |   @um [Optional]
| | |     |   @source [Optional]
| | |     |   @method [Optional]

```

```
| | | | | @application [Optional]
| | | | | @CV [Optional]
| | | | | - choose -
| | | | | tolerance 0-2
| | | | | @um [Required]
| | | | | - or -
| | | | | pcTolerance 0-2
| | | | | @um [Optional]
| | | | | - end choose -
| | | | | note 0-99
| | | | | @numberingOrg [Optional]
| | | | | @codeList [Optional]
| | | | | @noteLabel [Optional]
| | | | | note 0-99
| | | | | @numberingOrg [Optional]
| | | | | @codeList [Optional]
| | | | | @noteLabel [Optional]
```

2.2 Detailed description of document elements

Following tables show all elements (complex and simple) used in this document. Description includes: 1) element's information: xml tag, name, brief description, data type and syntax constraints; 2) information about use of the element in a particular position in the document: xpath and possible associated notes.

2.2.1 Complex elements (Aggregate Business Information Entities)

Complex elements are those elements whose content is composed of other elements (childs).Complex elements are alphabetically ordered.

| | |
|--------------------------|--|
| allowanceCharge | Allowances and Charges related to an Order or a contract |
| attachment | an attached document. An attachment can refer to an external document or be included with the document being exchanged |
| buyer | details of the Buyer (party that buys the good or service that is object of the current collaborative process) - base type: Nad, |
| deliveryLocation | data relating to a place of delivery - base type: Nad, |
| despatchLocation | data relating to a place of despatch - base type: Nad, |
| dtScheme | set of data usable to declare the duty or tax applied |
| externalReference | details about an external object, such as a document stored at a remote location |
| geoCoordinates | geographical coordinates |
| insPayment | payment details for payment by installments |
| payment | payment details for payment all in one |
| refDoc | identification of a document and of an item thereof, to which the message makes reference |
| RQheader | header of the document REQUEST FOR OFFER |
| subContractor | details of the Sub-contractor - base type: Nad, |
| supplier | details of the Supplier (party that supplies the good or service that is object of the current collaborative process) - base type: Nad, |
| terms | details of the commercial obligations for payment and delivery |
| thirdParty | identification and details of the Third Party, different from Sender and Receiver of the document - base type: Nad, |
| trade | general terms of trade for the specified supply |
| transInfo | details of transport: mode, carrier and delivery place |
| yarnCompos | fibrous composition of a yarn product |
| yarnMachineSpecs | technical specifications of a machine used in an operation of a work cycle for yarn (type and settings) |
| yarnMnfrOperation | details of a manufacturing operation used for manufacturing a yarn product |
| yarnSpecs | technical properties of a yarn product linked to an operation of the sub-contracted production of yarn or to the purchase of yarn |
| YDRQbody | body of the document REQUEST FOR DYEING OF YARN |

| | |
|-----------------|---|
| YDRQitem | line of the document REQUEST FOR DYEING OF YARN |
|-----------------|---|

2.2.2 Simple elements (Basic Business Information Entities)

Simple elements are those elements whose content is characterized by a data type plus a domain of possible values. Simple elements are alphabetically ordered.

| | |
|----------------------|--|
| AC_amount | amount of an Allowance or Charge - base type: decimal, fraction digits: 2, |
| AC_category | coded specification of an Allowance or Charge - base type: string, cod. table: T41 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T41.xml |
| AC_categoryText | free text description of an Allowance or Charge - base type: string, max length: 250, |
| AC_percent | amount of an Allowance or Charge as a percentage (always non negative value) - base type: decimal, max inclusive: 100, fraction digits: 2, |
| additionalIdentifier | additional identification code of a Party, for example customs registries or others - base type: string, max length: 15, |
| @application | force or similar condition (e.g. no. of revolutions) applied in a test as specified within the standard - base type: string, max length: 15, |
| binaryObject | a binary large object containing an attached document, Coding 'base64Binary' is recommended. - base type: base64Binary, |
| carrier | identification of the transport carrier - base type: string, max length: 40, |
| @characterSet | the character set of the binary object (examples UTF-8, UTF-16, Windows-1252, ISO-8859-7,...) - base type: normalizedString, |
| characterSetCode | the character set of an external document (examples UTF-8, UTF-16, Windows-1252, ISO-8859-7,...) - base type: normalizedString, |
| city | name of the city (town, village) - base type: string, max length: 40, |
| @codeList | it specifies the URL where the list of codes used to make an instance of the element can be found - base type: string, max length: 255, |
| country | code of the nation - base type: string, cod. table: T10 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T10.xml |
| @currency | currency in which a specified monetary data is expressed - base type: string, cod. table: T9 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T9.xml |
| @CV | coefficient of variation (CV) of a measurement - base type: decimal, |
| @dateForm | format used for the date - base type: string, cod. table: NT29 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT29.xml |
| delEffectiveDate | estimated date for actual delivery, which may be different from what is foreseen by the agreements between the parties. Formatted according to one of the patterns indicated by the dateForm attribute: YYYY-MM-DD, YYYY-MM-DD:HH-MM or YYYY-WW. - base type: string, |

| | |
|---------------------|---|
| deliveryDate | date of delivery of goods, requested or promised in the purchase process, according to one of the patterns YYYY-MM-DD, YYYY-MM-DD:HH-MM or YYYY-WW. - base type: string, |
| deliveryPlace | place of delivery of goods, ultimate or related to a given leg - base type: string, max length: 250, |
| dept | name or code of a department - base type: string, max length: 40, |
| despatchDate | date of despatch of goods, requested or promised in the purchase process, according to one of the patterns YYYY-MM-DD, YYYY-MM-DD:HH-MM or YYYY-WW. - base type: string, |
| despatchPlace | place of despatch of goods, origin or related to a given leg - base type: string, max length: 250, |
| docDate | date of issue of the referenced document, according to one of the patterns YYYY-MM-DD, YYYY-MM-DD:HH-MM or YYYY-WW. - base type: string, |
| docID | identification number of the referenced document - base type: string, max length: 80, |
| @docType | type or class to which the referenced document belongs - base type: string, cod. table: T21 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T21.xml |
| @email | electronic mail address of the contact person within a Party - base type: string, max length: 250, |
| @encoding | specifies the decoding algorithm of the binary object - base type: normalizedString, |
| encodingCode | the encoding/decoding algorithm used with the external object (example is 'base64Binary') - base type: normalizedString, |
| experimValue | experimental value of the measurement - base type: decimal, |
| @fax | fax number of the contact person within a Party - base type: string, max length: 35, |
| @fibre | type of fibre used in a textile product - base type: string, cod. table: T19 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T19.xml |
| fileName | unique identifier (name) of the file - base type: string, max length: 255, |
| @finDiscount | financial discount rate applied for payment by the date specified - base type: decimal, min inclusive: 0, max inclusive: 100, fraction digits: 2, |
| @finSurcharge | financial surcharge rate applied for payment after the date specified - base type: decimal, min inclusive: 0, max inclusive: 100, fraction digits: 2, |
| @format | the format of the binary content (examples xml, pdf, doc,...) - base type: string, |
| formatCode | the format of the external object (examples xml, pdf, doc,...) - base type: normalizedString, |
| @geoReferenceSystem | georeference system adopted for the coordinate (in example wgs84 with decimal degree or degree with minute and seconds) - base type: string, |
| grossWeight | the gross weight, declared for transport or customs purpose - base type: decimal, min inclusive: 0, fraction digits: 2, |
| id | primary identification code of a Party; it is recommended the format: nation code (ISO 3166) + VAT identification number (11 crt), with the qualifier "numberingOrg"= MF |

| | |
|-----------------|---|
| | - base type: string, max length: 15, |
| @idCO | primary identification code of the Party executing the test; it is recommended the format: nation code (ISO 3166) + VAT identification number (11 crt). - base type: string, max length: 15, |
| @idQualifier | Qualification of the identifier. - base type: string, |
| incoTerm | specification of the terms of trade (INCOTERMS) - base type: string, cod. table: T3 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T3.xml |
| incoTermText | free text specifying the terms of trade (incoterm, location) - base type: string, max length: 250, |
| @isCharge | Indicates if the element to which it refers is a charge (true = charge, false = allowance) - base type: boolean, |
| @isURL | it indicates if the referred element is an URL (true) or not (false) - base type: boolean, |
| itemID | number of the line/item of the referenced document - base type: string, max length: 40, |
| jobName | description of the elementary job - base type: string, max length: 40, |
| legalName | legal name - base type: string, max length: 250, |
| legalRef | legal reference of the duty or tax or fee category - base type: string, |
| lineN | number of the line item of the present message (xml document); it is set by the role that produces the document. Usually it is a progressive number, but not always. - base type: positiveInteger, min inclusive: 1, max inclusive: 9999, |
| @listName | the name of the list of codes used to make an instance of the element (it might be thought as descriptive element, i.e. 'fabric printing technologies', or not, i.e. "T264") - base type: string, max length: 40, |
| @listVersion | it specifies the version of the list of codes used to make an instance of the element - base type: string, max length: 6, |
| location | specification of a location - base type: string, max length: 40, |
| @logo | company logo (URL of the image jpeg or gif). It is recommended that the width of the image does not exceed 640 pixel. - base type: string, max length: 255, |
| @LRI | attribute usable to format a string according to a customized User rule (local rule) - base type: string, cod. table: NT3 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT3.xml |
| @materialSource | Indicates whether the material is virgin or comes from recycling or reuse processes - base type: string, cod. table: T306 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T306.xml |
| @maxQty | maximum product quantity - base type: decimal, min inclusive: 0, fraction digits: 2, |
| @method | standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 80, |
| @mime | the mime type of the binary object - base type: normalizedString, |
| mimeCode | mime type of the external object - base type: normalizedString, |

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| @minQty | minimum product quantity - base type: decimal, min inclusive: 0, fraction digits: 2, |
| msgDate | date of issue of the present message (xml document), according to one of the patterns YYYY-MM-DD, YYYY-MM-DD:HH-MM or YYYY-WW. - base type: string, |
| @msgfunction | function performed by the present message with regards to the transmission - base type: string, cod. table: NT18 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT18.xml |
| msgID | key identifier of the business document in the information system of the issuing Party. In case of more despatches of the same business document, it is unchanged. - base type: string, max length: 35, |
| msgN | identification number given to the message (xml document) by its issuer. In case of more despatches of the same business document, it changes. - base type: string, max length: 35, |
| netWeight | the net weight declared for transport or customs purpose - base type: decimal, min inclusive: 0, fraction digits: 2, |
| notBeforeDate | earliest date possible to begin an activity, according to one of the patterns YYYY-MM-DD, YYYY-MM-DD:HH-MM or YYYY-WW. - base type: string, |
| note | free text or structured (computer processing) note. For note structuring use the attributes "noteLabel" and "codelist" - base type: string, max length: 350, |
| @noteLabel | subject qualifier of a note - base type: string, max length: 35, |
| @numberingOrg | code specifying the organisation who has created or owns the coding or numbering system - base type: string, cod. table: NT6 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT6.xml |
| @part | percent fraction - base type: decimal, min inclusive: 1, max inclusive: 100, fraction digits: 2, |
| payMode | way or means of payment - base type: string, cod. table: T2 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T2.xml |
| payTerm | code specifying the terms or time by which the payment must be done - base type: string, cod. table: T1 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T1.xml |
| payTermText | free text specifying the terms by which the payment must be done (time/mode or means) - base type: string, max length: 250, |
| pcTolerance | percent deviation tolerated on the value of a measurement (it must have a plus or minus sign) - base type: decimal, min inclusive: 0, max inclusive: 100, total digits: 2, |
| percCompos | fiber rate in the product composition - base type: decimal, min inclusive: 0, max inclusive: 100, fraction digits: 2, |
| @percSourcesRenewable | indicates the percentage of renewable sources - base type: decimal, |
| person | name of a person (e.g. contact person within an organization) - base type: string, max length: 40, |
| @phone | phone number of the contact person within a Party - base type: string, max length: 35, |
| postCode | code defining the postal zone - base type: string, max length: 10, |
| @progr | progressive number in the sequence |

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| | - base type: positiveInteger, min inclusive: 1, |
| @propulsionSystemCode | propulsion system type - base type: string, cod. table: NT324 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT324.xml |
| qty | net quantity of the article or object correlated, qualified by the function of the document (ordering, delivering, ..) and by the context - base type: decimal, min inclusive: 0, fraction digits: 2, |
| @recyclingProcessMethod | recycling process method - base type: string, cod. table: T307 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T307.xml |
| @role | Third Party role qualifier - base type: string, cod. table: NT2 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT2.xml |
| routeLength | length of a route - base type: decimal, min inclusive: 0, fraction digits: 2, |
| season | sale season; defined as: season (1 crt) + year (4 crt) - season: S/S=1 A/W=2 Spring=3 Summer=4 Autumn=5 Winter=6: for more than four seasons use alphabetic sequence: 1st season=A 2nd season=B etc.etc. - base type: string, max length: 15, |
| @sender | qualifier that specifies the Party issuing of the document - base type: boolean, |
| @source | party who has provided the data - base type: string, cod. table: NT12 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT12.xml |
| specValue | value requested for a property or a parameter that is measured - base type: decimal, |
| street | street and building number identifying a location - base type: string, max length: 80, |
| subCountry | short name or code of the sub-country entity - base type: string, max length: 9, |
| subDept | name or code of a department - base type: string, max length: 40, |
| taxCategory | duty or tax or fee category - base type: string, cod. table: T62 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T62.xml |
| taxRate | duty or tax or fee percent rate - base type: string, |
| @taxType | duty or tax or fee type - base type: string, cod. table: T61 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T61.xml |
| tolerance | deviation tolerated on the value of a measurement (it must have a plus or minus sign) - base type: decimal, |
| transCondition | special condition of transport or special service requested to the Forwarder - base type: string, cod. table: T38 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T38.xml |
| transConditionText | free text description of the special condition of transport or special service requested to the Forwarder - base type: string, max length: 250, |
| transMeans | means of transport, in general or referred to a specific leg - base type: string, cod. table: T40 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T40.xml |
| transMode | way of transport, in general or referred to the specified leg - base type: string, cod. table: T8 |

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| | http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T8.xml |
| @transReason | reason for the transport - base type: string, cod. table: NT11 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT11.xml |
| @uid | unique element identifier within the xml document - base type: string, |
| @um | specification of the unit of measure - base type: string, cod. table: NT7 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT7.xml |
| uri | Uniform Resource Identifier (URI) that identifies the external object as an Internet resource - base type: normalizedString, |
| @useProfile | use profile to which the present document is compliant if it was agreed by the parties. It is suggested a URI with reference to the firms or the URL of the profile. - base type: string, |
| validityEnd | date by which the validity ends, according to one of the patterns YYYY-MM-DD, YYYY-MM-DD:HH-MM or YYYY-WW. - base type: string, |
| validityStart | date by which the validity starts, according to one of the patterns YYYY-MM-DD, YYYY-MM-DD:HH-MM or YYYY-WW. - base type: string, |
| @VAT | VAT rate or code (DEPRECATED, use dtScheme element) - base type: string, cod. table: NT16 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT16.xml |
| @version | Dictionary version from which the instance has been created - base type: string, cod. table: NT100 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT100.xml |
| xGeoCoord | geographical coordinate x , corresponding to latitude - base type: decimal, |
| yarnChar | physical or mechanical parameter used to define a property of a yarn - base type: string, cod. table: T24 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T24.xml |
| yarnCharText | free text describing the physical or mechanical parameter used to define a property of a yarn - base type: string, max length: 250, |
| yarnJob | operation of a work cycle for yarn - base type: string, cod. table: T201 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T201.xml |
| yarnJobTech | operation technology for yarn - base type: string, cod. table: T261 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T261.xml |
| yarnMachine | machine used in an operation of a work cycle for yarn - base type: string, cod. table: T271 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T271.xml |
| yarnMachineParam | setting parameter of a machine used in an operation of a work cycle for yarn - base type: string, cod. table: T281 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T281.xml |
| @yarnProcQualifier | type of yarn with reference to the manufacturing process - base type: string, cod. table: NT31 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT31.xml |
| yGeoCoord | geographical coordinate y , corresponding to longitude - base type: decimal, |
| zGeoCoord | geographical coordinate z , corresponding to altitude - base type: decimal, |

2.3 Suggested best practices

**YARNDyeRequest/YDRQbody/YDRQitem/yarnMnfrOperation/
refDoc/docID (identification number of the referenced document)**

numberingOrg indicates the role that produced the document identifier (it is allowed to declare two different ones -e.g. customer and supplier - with two docID with different numberingOrg

YARNDyeRequest/RQheader/refDoc/docID (identification number of the referenced document)

numberingOrg indicates the role that produced the document identifier (it is allowed to declare two different ones -e.g. customer and supplier - with two docID with different numberingOrg

**YARNDyeRequest/YDRQbody/YDRQitem/yarnMnfrOperation/
refDoc/attachment/externalReference/mimeType (mime type of the external object)**

Use coding from IANA <http://www.iana.org/assignments/media-types/media-types.xml>

**YARNDyeRequest/RQheader/refDoc/attachment/
externalReference/mimeType (mime type of the external object)**

Use coding from IANA <http://www.iana.org/assignments/media-types/media-types.xml>

YARNDyeRequest/YDRQbody/YDRQitem/qty (net quantity of the article or object correlated, qualified by the function of the document (ordering, delivering, ..) and by the context)

this element can have two instances only if the units of measure are different

2.4 Enumeration tables

List of enumeration tables used in the XML document. You can find all the tables with the corresponding codes at:
<http://www.ebiz.enea.it/eBIZ/imple/eBIZTCU-draft.asp?lingua=en&pag=6>

NT100 - eBIZ TCFUpstream version
NT11 - transport causal
NT12 - data source
NT16 - VAT rate or code
NT18 - message function
NT2 - third party qualifier
NT29 - format of a date
NT3 - data format
NT31 - yarn family
NT324 - propulsion system type
NT6 - coding system owner/issuer
NT7 - unit of measure
T1 - terms of payment
T10 - ISO3166 - Country
T19 - fibre type
T2 - Modes of payment
T201 - type of job on yarn
T21 - type of document
T24 - yarn characteristics type
T261 - type of job technology for yarn
T271 - machine type for yarn operation
T281 - parameter type for yarn operation
T3 - terms of delivery - IncoTerms
T306 - material circularity attribute
T307 - recycling process method
T38 - transport conditions
T40 - type of transport means
T41 - type of Allowance or Charge
T61 - duty or tax or fee type
T62 - duty or tax or fee category
T8 - Modes of Transport
T9 - ISO4217 - Currency

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Annex A

Representative images of the principal complex elements' structure.

