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## IMPLEMENTATION GUIDE TRANSACTION "TWISTING REQUEST"

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# 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 "TWISTING 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 Manufacturer to request from a Subcontractor an Offer for the twisting of a yarn.

The Request is structured in four levels:

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

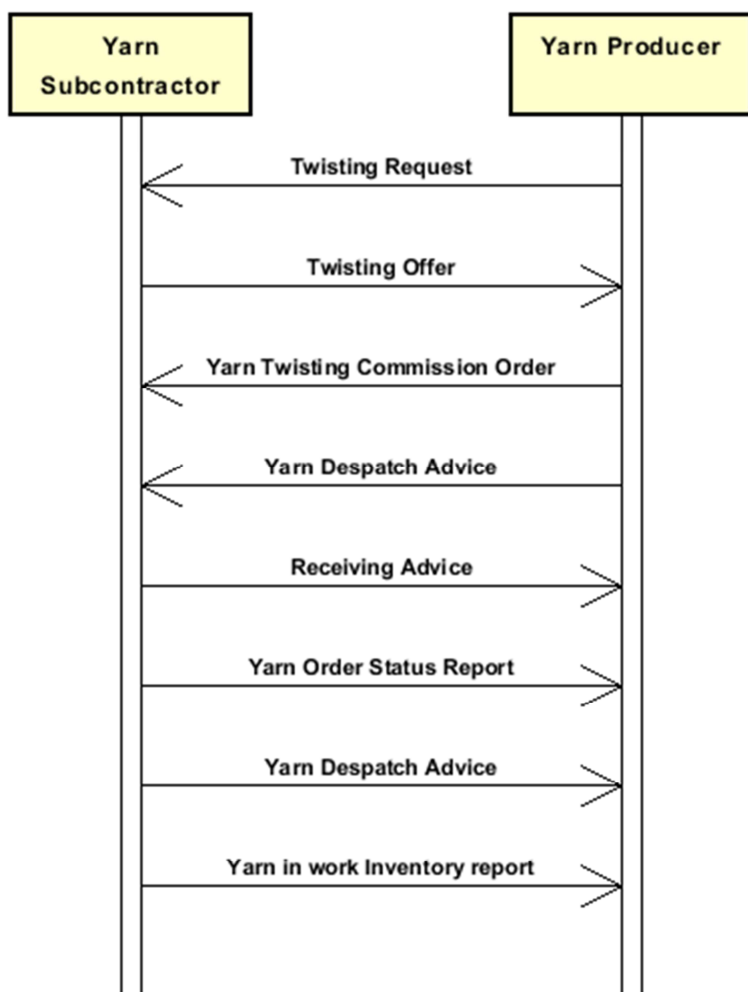
Product Family = document qualifier (type of product with reference to the manufacturing process; e.g.: combed yarn, jacquard weaved fabric, ..)

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



## 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

#### **YARNTwistRequest**

*@msgfunction [Optional] [Default= OR]*

*@yarnProcQualifier [Required]*

#### **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

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

itemID 0-1

#### **buyer 1-1**

*@logo [Optional]*

*@sender [Optional]*

id 1-1

*@numberingOrg [Optional]*

legalName 0-1

dept 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  
**subContractor 0-1**  
@sender [Optional]  
id 1-1  
@numberingOrg [Optional]  
legalName 0-1  
dept 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  
note 0-1  
@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 0-1**  
@transReason [Optional]  
transMode 1-1  
carrier 0-1  
deliveryPlace 0-1  
grossWeight 0-1  
@um [Required]  
netWeight 0-1  
@um [Required]  
transMeans 0-1  
transCondition 0-3  
transConditionText 0-1

**allowanceCharge 0-9**  
@VAT [Optional]

- choose -
- AC\_category 1-1
- or -
- AC\_categoryText 1-1
- choose -
- AC\_percent 1-1
- or -
- AC\_amount 1-1
- end choose -

## YTRQbody 1-1

### YTRQitem 1-unbounded

- lineN 1-1
- @VAT [Optional]
- yarnCompos 0-1**
  - percCompos 1-9
  - @fibre [Required]
- yarnSpecs 0-9**
  - choose -
  - yarnCharText 1-1
  - or -
  - yarnChar 1-1
  - end choose -
  - specValue 0-1
  - @um [Optional]
  - @method [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 0-1**
  - @VAT [Optional]
  - @role [Required]
  - @sender [Optional]
  - id 1-1
  - @numberingOrg [Optional]
  - legalName 0-1
  - dept 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
- yarnMnfrOperation 1-9**
  - choose -
  - jobName 1-1
  - or -
  - yarnJob 1-1

- end choose -  
 yarnJobTech 0-1  
**refDoc 0-1**  
   @docType [Required]  
   docID 1-2  
     @numberingOrg [Optional]  
   docDate 0-1  
     @dateForm [Optional]  
   season 0-1  
   itemID 0-1  
 yarnMachine 0-1  
**yarnMachineSpecs 0-9**  
   yarnMachineParam 1-1  
   specValue 0-1  
     @um [Optional]  
     @method [Optional]  
   - choose -  
     tolerance 0-2  
       @um [Required]  
   - or -  
     pcTolerance 0-2  
       @um [Optional]  
   - end choose -  
   note 0-1  
     @numberingOrg [Optional]  
     @codeList [Optional]  
     @noteLabel [Optional]

note 0-1  
 @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.

<b>allowanceCharge</b>	Allowances and Charges related to an Order or a contract (XPath: YARNTwistRequest/terms/allowanceCharge) 0-9
<b>buyer</b>	details of the Buyer - base type: , (XPath: YARNTwistRequest/RQheader/buyer) 1-1
<b>insPayment</b>	payment details for payment by installments (XPath: YARNTwistRequest/terms/insPayment) 0-5 - note: <i>this set of data is alternative to payment set and must be iterated for each payment installment</i>
<b>payment</b>	payment details for payment all in one (XPath: YARNTwistRequest/terms/payment) 0-5 - note: <i>this set of data can be iterated to specify alternative terms of payment (e.g.: 60 days or 30 days with 3% discount)</i>
<b>refDoc</b>	identification of a document and of an item thereof, to which the message makes reference (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/refDoc) 0-1 - note: <i>here a Process Sheet transmitted to the Subcontractor can be referenced</i> (XPath: YARNTwistRequest/RQheader/refDoc) 0-9
<b>RQheader</b>	header of the document REQUEST FOR OFFER (XPath: YARNTwistRequest/RQheader) 1-1
<b>subContractor</b>	details of the Sub-contractor - base type: , (XPath: YARNTwistRequest/RQheader/subContractor) 0-1 - note: <i>the Supplier could be unknown when the process is managed trough a Third Party (Service Centre)</i>
<b>terms</b>	details of the commercial obligations for payment and delivery (XPath: YARNTwistRequest/terms) 0-1
<b>thirdParty</b>	details of the Third Party, different from Buyer or Supplier - base type: , (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty) 0-1
<b>trade</b>	general terms of trade for the specified supply (XPath: YARNTwistRequest/terms/trade) 0-1
<b>transInfo</b>	details of transport: mode, carrier and delivery place (XPath: YARNTwistRequest/terms/transInfo) 0-1
<b>yarnCompos</b>	fibrous composition of a yarn product (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnCompos) 0-1
<b>yarnMachineSpecs</b>	technical specifications of a machine used in an operation of a work cycle for yarn (type and settings) (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMachineSpecs) 0-1



	YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/yarnMachineSpecs) 0-9
<b>yarnMnfrOperation</b>	details of a manufacturing operation used for manufacturing a yarn product (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation) 1-9
<b>yarnSpecs</b>	technical characteristics of a yarn product linked to an operation of the sub-contracted production of yarn or to the purchas of yarn (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnSpecs) 0-9
<b>YTRQbody</b>	body of the document REQUEST FOR TWISTING (XPath: YARNTwistRequest/YTRQbody) 1-1
<b>YTRQitem</b>	line of the document REQUEST FOR TWISTING (XPath: YARNTwistRequest/YTRQbody/YTRQitem) 1-unbounded

## 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, (XPath: YARNTwistRequest/terms/allowanceCharge/AC_amount) 1-1
AC_category	coded specification of an Allowance or Charge - base type: string, cod. table: T41, (XPath: YARNTwistRequest/terms/allowanceCharge/AC_category) 1-1
AC_categoryText	free text description of an Allowance or Charge - base type: string, max length: 70, (XPath: YARNTwistRequest/terms/allowanceCharge/AC_categoryText) 1-1
AC_percent	amount of an Allowance or Charge as a percentage - base type: decimal, max inclusive: 100, fraction digits: 2, (XPath: YARNTwistRequest/terms/allowanceCharge/AC_percent) 1-1
carrier	identification of the transport carrier - base type: string, max length: 40, (XPath: YARNTwistRequest/terms/transInfo/carrier) 0-1
city	name of the city (town, village) - base type: string, max length: 40, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/city) 0-1 (XPath: YARNTwistRequest/RQheader/buyer/city) 0-1 (XPath: YARNTwistRequest/RQheader/subContractor/city) 0-1
@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, (XPath: YARNTwistRequest/RQheader/note/@codeList) [Optional] - nota: <i>must be used to provide (URL) the list of codes used in "noteLabel"</i> (XPath: YARNTwistRequest/YTRQbody/YTRQitem/note/@codeList) [Optional] - nota: <i>must be used to provide (URL) the list of codes used in "noteLabel"</i> (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/note/@codeList) [Optional] - nota: <i>must be used to provide (URL) the list of codes used in "noteLabel"</i>
country	code of the nation - base type: string, cod. table: T10, (XPath: YARNTwistRequest/RQheader/buyer/country) 0-1 (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/country) 0-1 (XPath: YARNTwistRequest/RQheader/subContractor/country) 0-1
@dateForm	format used for a date

	<p>- base type: string, cod. table: NT29,  (XPath: YARNTwistRequest/YTRQbody/YTRQitem/notBeforeDate/@dateForm) [Optional]  (XPath: YARNTwistRequest/RQheader/refDoc/docDate/@dateForm) [Optional]  (XPath:  YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/refDoc/docDate/@dateForm) [Optional]  (XPath: YARNTwistRequest/YTRQbody/YTRQitem/deliveryDate/@dateForm) [Optional]  (XPath: YARNTwistRequest/RQheader/validityStart/@dateForm) [Optional]  (XPath: YARNTwistRequest/RQheader/msgDate/@dateForm) [Optional]  (XPath: YARNTwistRequest/RQheader/validityEnd/@dateForm) [Optional]</p>
deliveryDate	<p>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,  (XPath: YARNTwistRequest/YTRQbody/YTRQitem/deliveryDate) 1-1</p>
deliveryPlace	<p>place of delivery of goods, ultimate or related to a given leg  - base type: string, max length: 40,  (XPath: YARNTwistRequest/terms/transInfo/deliveryPlace) 0-1</p>
dept	<p>name or code of a contact department within a Party  - base type: string, max length: 40,  (XPath: YARNTwistRequest/RQheader/subContractor/dept) 0-1  (XPath: YARNTwistRequest/RQheader/buyer/dept) 0-1  (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/dept) 0-1</p>
docDate	<p>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,  (XPath: YARNTwistRequest/RQheader/refDoc/docDate) 0-1  (XPath:  YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/refDoc/docDate) 0-1</p>
docID	<p>identification number of the referenced document SINCE 2008-1 ITS USE IN THE HEADER IS DISCOURAGED (REPLACED BY )  - base type: string, max length: 35,  (XPath:  YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/refDoc/docID) 1-2  (XPath: YARNTwistRequest/RQheader/docID) 0-1  (XPath: YARNTwistRequest/RQheader/refDoc/docID) 1-2</p>
@docType	<p>type or class to which the referenced document belongs  - base type: string, cod. table: T21,  (XPath:  YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/refDoc/@docType) [Required]  (XPath: YARNTwistRequest/RQheader/refDoc/@docType) [Required]</p>
@email	<p>electronic mail address of the contact person within a Party  - base type: string, max length: 80,  (XPath: YARNTwistRequest/RQheader/subContractor/person/@email) [Optional]  (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/  person/@email) [Optional]  (XPath: YARNTwistRequest/RQheader/buyer/person/@email) [Optional]</p>
@fax	<p>fax number of the contact person within a Party  - base type: string, max length: 35,  (XPath: YARNTwistRequest/RQheader/subContractor/person/@fax) [Optional]  (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/  person/@fax) [Optional]  (XPath: YARNTwistRequest/RQheader/buyer/person/@fax) [Optional]</p>
@fibre	<p>type of fibre used in a textile product  - base type: string, cod. table: T19,  (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnCompos/  percCompos/@fibre) [Required]</p>
@finDiscount	<p>financial discount applied for payment by the date specified</p>

	- base type: decimal, min inclusive: 0, max inclusive: 100, fraction digits: 2, (XPath: YARNTwistRequest/terms/payment/@finDiscount) [Optional]
@finSurcharge	financial surcharge applied for payment after the date specified - base type: decimal, min inclusive: 0, max inclusive: 100, fraction digits: 2, (XPath: YARNTwistRequest/terms/payment/@finSurcharge) [Optional]
grossWeight	the gross weight of the overall goods supply, declared for transport or customs purpose - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: YARNTwistRequest/terms/transInfo/grossWeight) 0-1
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, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/id) 1-1 (XPath: YARNTwistRequest/RQheader/subContractor/id) 1-1 (XPath: YARNTwistRequest/RQheader/buyer/id) 1-1
incoTerm	specification of the terms of trade (INCOTERMS) - base type: string, cod. table: T3, (XPath: YARNTwistRequest/terms/trade/incoTerm) 1-1
incoTermText	free text specifying the terms of trade (incoterm, location) - base type: string, max length: 70, (XPath: YARNTwistRequest/terms/trade/incoTermText) 1-1
itemID	number of the line/item of the referenced document - base type: string, max length: 6, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/refDoc/itemID) 0-1 (XPath: YARNTwistRequest/RQheader/refDoc/itemID) 0-1
jobName	description of the elementary job - base type: string, max length: 40, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/jobName) 1-1
legalName	legal name of a Party - base type: string, max length: 80, (XPath: YARNTwistRequest/RQheader/subContractor/legalName) 0-1 (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/legalName) 0-1 (XPath: YARNTwistRequest/RQheader/buyer/legalName) 0-1
lineN	number of the line item of the present message (xml document) - base type: positiveInteger, min inclusive: 1, max inclusive: 9999, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/lineN) 1-1
location	specification of a location - base type: string, max length: 40, (XPath: YARNTwistRequest/terms/trade/location) 0-1 - note: <i>place to which the INCOTERM applies</i>
@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, (XPath: YARNTwistRequest/RQheader/buyer/@logo) [Optional]
@LRI	attribute usable to format a string according to a customized User rule (local rule) - base type: string, cod. table: NT3, (XPath: YARNTwistRequest/terms/trade/location/@LRI) [Optional]
@method	standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/yarnMachineSpecs/specValue/@method) [Optional] (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnSpecs/

	specValue/@method) [Optional]
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, (XPath: YARNTwistRequest/RQheader/msgDate) 1-1
@msgfunction	function performed by the present message with regards to the transmission - base type: string, cod. table: NT18, (XPath: YARNTwistRequest/@msgfunction) [Optional] [Default= OR]
msgID	key identifier of the document in the information system of the issuing Party - base type: string, max length: 35, (XPath: YARNTwistRequest/RQheader/msgID) 0-1
msgN	identification number given to the message (xml document) by its issuer - base type: string, max length: 35, (XPath: YARNTwistRequest/RQheader/msgN) 1-1
netWeight	the net weight of the overall goods supply, declared for transport or customs purpose - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: YARNTwistRequest/terms/transInfo/netWeight) 0-1
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, cod. table: NT29, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/notBeforeDate) 0-1
note	free text or structured (computer processing) note. For note structuring use the attributes "noteLabel" and "codelist" - base type: string, max length: 350, (XPath: YARNTwistRequest/RQheader/note) 0-1 (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/note) 0-1 (XPath: YARNTwistRequest/YTRQbody/YTRQitem/note) 0-1
@noteLabel	subject qualifier of a note - base type: string, max length: 35, (XPath: YARNTwistRequest/RQheader/note/@noteLabel) [Optional] - nota: <i>must be used to qualify the subject of the note</i> (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/note/@noteLabel) [Optional] - nota: <i>must be used to qualify the subject of the note</i> (XPath: YARNTwistRequest/YTRQbody/YTRQitem/note/@noteLabel) [Optional] - nota: <i>must be used to qualify the subject of the note</i>
@numberingOrg	code specifying the organisation who has created or owns the coding or numbering system - base type: string, cod. table: NT6, (XPath: YARNTwistRequest/RQheader/refDoc/docID/@numberingOrg) [Optional] - nota: <i>here can be specified whose document numbering is used (e.g.: Client, Supplier, ..)</i> (XPath: YARNTwistRequest/RQheader/subContractor/id/@numberingOrg) [Optional] (XPath: YARNTwistRequest/RQheader/note/@numberingOrg) [Optional] (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/refDoc/docID/@numberingOrg) [Optional] - nota: <i>here can be specified whose document numbering is used (e.g.: Client, Supplier, ..)</i> (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/note/@numberingOrg) [Optional] (XPath: YARNTwistRequest/RQheader/docID/@numberingOrg) [Optional] - nota: <i>here can be specified whose document numbering is used (e.g.: Client, Supplier, ..)</i> (XPath: YARNTwistRequest/YTRQbody/YTRQitem/note/@numberingOrg) [Optional] (XPath: YARNTwistRequest/RQheader/buyer/id/@numberingOrg) [Optional] (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/id/@numberingOrg) [Optional]
@part	percent fraction of a total payment - base type: decimal, min inclusive: 1, max inclusive: 99, fraction digits: 2, (XPath: YARNTwistRequest/terms/insPayment/@part) [Required]

	- nota: <i>here the % value of each installment must be indicated</i>
payMode	way or means of payment - base type: string, cod. table: T2, (XPath: YARNTwistRequest/terms/insPayment/payMode) 0-1 (XPath: YARNTwistRequest/terms/payment/payMode) 0-1
payTerm	code specifying the terms or time by which the payment must be done - base type: string, cod. table: T1, (XPath: YARNTwistRequest/terms/insPayment/payTerm) 1-1 (XPath: YARNTwistRequest/terms/payment/payTerm) 1-1
payTermText	free text specifying the terms by which the payment must be done (time/mode or means) - base type: string, max length: 40, (XPath: YARNTwistRequest/terms/payment/payTermText) 1-1 (XPath: YARNTwistRequest/terms/insPayment/payTermText) 1-1
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, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnSpecs/pcTolerance) 0-2 (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/yarnMachineSpecs/pcTolerance) 0-2
percCompos	fiber rate in the product composition - base type: decimal, min inclusive: 0, max inclusive: 100, fraction digits: 2, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnCompos/percCompos) 1-9
person	name of the contact person within a Party - base type: string, max length: 40, (XPath: YARNTwistRequest/RQheader/subContractor/person) 0-1 (XPath: YARNTwistRequest/RQheader/buyer/person) 0-1 (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/person) 0-1
@phone	phone number of the contact person within a Party - base type: string, max length: 35, (XPath: YARNTwistRequest/RQheader/buyer/person/@phone) [Optional] (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/person/@phone) [Optional] (XPath: YARNTwistRequest/RQheader/subContractor/person/@phone) [Optional]
postCode	code defining the postal zone - base type: string, max length: 10, (XPath: YARNTwistRequest/RQheader/buyer/postCode) 0-1 (XPath: YARNTwistRequest/RQheader/subContractor/postCode) 0-1 (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/postCode) 0-1
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, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/qty) 1-2
@role	Third Party role qualifier - base type: string, cod. table: NT2, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/@role) [Required]
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, (XPath: YARNTwistRequest/RQheader/season) 0-1 (XPath: YARNTwistRequest/RQheader/refDoc/season) 0-1 - note: <i>here indicates the season to which the referenced document belongs</i> (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/refDoc/season) 0-1 - note: <i>here indicates the season to which the referenced document belongs</i>
@sender	qualifier that specifies the Party issuing of the document

	<ul style="list-style-type: none"> <li>- base type: boolean, (XPath: YARNTwistRequest/RQheader/subContractor/@sender) [Optional]</li> <li>- nota: <i>This attribute is mandatory when the STYLESHEET must be produced</i> (XPath: YARNTwistRequest/RQheader/buyer/@sender) [Optional]</li> <li>- nota: <i>This attribute is mandatory when the STYLESHEET must be produced</i> (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/@sender) [Optional]</li> <li>- nota: <i>This attribute is mandatory when the STYLESHEET must be produced</i></li> </ul>
specValue	<p>value requested for a characteristics or a parameter that can be measured</p> <ul style="list-style-type: none"> <li>- base type: decimal, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/yarnMachineSpecs/specValue) 0-1 (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnSpecs/specValue) 0-1</li> </ul>
street	<p>street and building number identifying a location</p> <ul style="list-style-type: none"> <li>- base type: string, max length: 80, (XPath: YARNTwistRequest/RQheader/subContractor/street) 0-1 (XPath: YARNTwistRequest/RQheader/buyer/street) 0-1 (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/street) 0-1</li> </ul>
subCountry	<p>short name or code of the sub-country entity</p> <ul style="list-style-type: none"> <li>- base type: string, max length: 9, (XPath: YARNTwistRequest/RQheader/subContractor/subCountry) 0-1 (XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/subCountry) 0-1 (XPath: YARNTwistRequest/RQheader/buyer/subCountry) 0-1</li> </ul>
tolerance	<p>deviation tolerated on the value of a measurement (it must have a plus or minus sign)</p> <ul style="list-style-type: none"> <li>- base type: decimal, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnSpecs/tolerance) 0-2 (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/yarnMachineSpecs/tolerance) 0-2</li> </ul>
transCondition	<p>special condition of transport or special service requested to the Forwarder</p> <ul style="list-style-type: none"> <li>- base type: string, cod. table: T38, (XPath: YARNTwistRequest/terms/transInfo/transCondition) 0-3</li> </ul>
transConditionText	<p>free text description of the special condition of transport or special service requested to the Forwarder</p> <ul style="list-style-type: none"> <li>- base type: string, max length: 100, (XPath: YARNTwistRequest/terms/transInfo/transConditionText) 0-1</li> </ul>
transMeans	<p>means of transport, in general or referred to a specific leg</p> <ul style="list-style-type: none"> <li>- base type: string, cod. table: T40, (XPath: YARNTwistRequest/terms/transInfo/transMeans) 0-1</li> </ul>
transMode	<p>way of transport, in general or referred to the specified leg</p> <ul style="list-style-type: none"> <li>- base type: string, cod. table: T8, (XPath: YARNTwistRequest/terms/transInfo/transMode) 1-1</li> </ul>
@transReason	<p>reason for the transport</p> <ul style="list-style-type: none"> <li>- base type: string, cod. table: NT11, (XPath: YARNTwistRequest/terms/transInfo/@transReason) [Optional]</li> </ul>
@um	<p>specification of the unit of measure</p> <ul style="list-style-type: none"> <li>- base type: string, cod. table: NT7, (XPath: YARNTwistRequest/YTRQbody/YTRQitem/qty/@um) [Required] (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnSpecs/tolerance/@um) [Required] (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/yarnMachineSpecs/specValue/@um) [Optional] (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnSpecs/pcTolerance/@um) [Optional]</li> <li>- nota: <i>to be used when it has to be soecified if the declared percentage is by weight, volume, etc...</i> (XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/yarnMachineSpecs/tolerance/@um) [Required]</li> </ul>

	<p>(XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnSpecs/specValue/@um) [Optional]</p> <p>(XPath: YARNTwistRequest/terms/transInfo/netWeight/@um) [Required]</p> <p>(XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/yarnMachineSpecs/pcTolerance/@um) [Optional]</p> <p>- nota: to be used when it has to be soecified if the declared percentage is by weight, volume, etc...</p> <p>(XPath: YARNTwistRequest/terms/transInfo/grossWeight/@um) [Required]</p>
validityEnd	<p>date by which the validity ends, according to one of the patterns YYYY-MM-DD, YYYY-MM-DD:HH-MM or YYYY-WW.</p> <p>- base type: string,</p> <p>(XPath: YARNTwistRequest/RQheader/validityEnd) 1-1</p>
validityStart	<p>date by which the validity starts, according to one of the patterns YYYY-MM-DD, YYYY-MM-DD:HH-MM or YYYY-WW.</p> <p>- base type: string,</p> <p>(XPath: YARNTwistRequest/RQheader/validityStart) 0-1</p>
@VAT	<p>VAT rate or code</p> <p>- base type: string, cod. table: NT16,</p> <p>(XPath: YARNTwistRequest/terms/allowanceCharge/@VAT) [Optional]</p> <p>(XPath: YARNTwistRequest/YTRQbody/YTRQitem/lineN/@VAT) [Optional]</p> <p>(XPath: YARNTwistRequest/YTRQbody/YTRQitem/thirdParty/@VAT) [Optional]</p>
yarnChar	<p>physical or mechanical parameter used to define a characteristics of a yarn</p> <p>- base type: string, cod. table: T24,</p> <p>(XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnSpecs/yarnChar) 1-1</p>
yarnCharText	<p>free text describing the physical or mechanical parameter used to define a characteristics of a yarn</p> <p>- base type: string, max length: 40,</p> <p>(XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnSpecs/yarnCharText) 1-1</p>
yarnJob	<p>operation of a work cycle for yarn</p> <p>- base type: string, cod. table: T201,</p> <p>(XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/yarnJob) 1-1</p>
yarnJobTech	<p>operation technology for yarn</p> <p>- base type: string, cod. table: T261,</p> <p>(XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/yarnJobTech) 0-1</p>
yarnMachine	<p>machine used in an operation of a work cycle for yarn</p> <p>- base type: string, cod. table: T271,</p> <p>(XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/yarnMachine) 0-1</p>
yarnMachineParam	<p>setting parameter of a machine used in an operation of a work cycle for yarn</p> <p>- base type: string, cod. table: T281,</p> <p>(XPath: YARNTwistRequest/YTRQbody/YTRQitem/yarnMnfrOperation/yarnMachineSpecs/yarnMachineParam) 1-1</p>
@yarnProcQualifier	<p>type of yarn with reference to the manufacturing process</p> <p>- base type: string, cod. table: NT31,</p> <p>(XPath: YARNTwistRequest/@yarnProcQualifier) [Required]</p>

## 2.3 Enumeration tables

List of enumeration tables used in the XML document. You can find the corresponding codes (only for tables with less than 100 values) in the document `Decoding_Values.pdf`, available at: <http://www.moda-ml.org/moda-ml/repository/guide/v2011-1/>; moreover, all the enumeration tables are available at: <http://www.moda-ml.org/imple/show-codes.asp>.

NT11 - Transport causal  
NT16 - VAT rate or code  
NT18 - message function  
NT2 - Third party qualifier  
NT29 - format of a date  
NT3 - Data format  
NT31 - yarn family  
NT6 - Coding system owner/issuer  
NT7 - Unity 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  
T38 - transport conditions  
T40 - type of transport means  
T41 - type of Allowance or Charge  
T8 - Modes of Transport



# Annex A

Representative images of the principal complex elements' structure.

