PapiNet WoodX implementation guide

PurchaseOrderWood

MessageType: PurchaseOrder

PurchaseOrderWood V2.31

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1. INTRODUCTION

1.1 Purpose of this document

PapiNet WoodX is a segment user group (SIG) within papiNet that is maintaining a message transaction standard within the wood products supply chain.

The intention of this document is to facilitate for a user to implement the WoodX-message. In addition, it aims to ensure that the message is implemented in a way that creates the best possible functionality of the message for all the users and parties in the supply chain. The real benefits of e-business can only be achieved via harmonized message implementations and use cases. The harmonization can be assured by users following the implementation instructions.

This document describes the common use case for the *PurchaseOrderWood* Type Purchase Order e-document. It can be used as a guideline for implementations, together with the related ISS excel file containing the schema subset including enumeration, rules and remarks for each element. For more information about elements and attributes we recommend to use the common PapiNet DataDictionary.

1.2 PapiNet WoodX messages

In this paragraph is described the relations between different business transactions and PapiNet WoodX e-messages and message types.

Below are given the overviews of two different business transaction cases. These two are the most typical business transaction cases in trading wood products in Europe. The first case describes the traditional trade flow of wood product in Europe. In this case, the business transaction starts with a purchase order sent by the buyer (see Figure 1.). The latter case describes the business transaction that is typical when trading wood products to builder merchants. In this case it is typical that the seller and buyer have interchanged "article list" and corresponding "price lists" according to the business agreements (see Figure 2.).

In the figures, the business transactions are shown on the left, and the arrows indicate the sender and receiver of a message. On the right are listed the PapiNet WoodX e-messages and message types suitable for the business transactions.

Figure 1. Traditional trade flow of wood products (CASE 1)

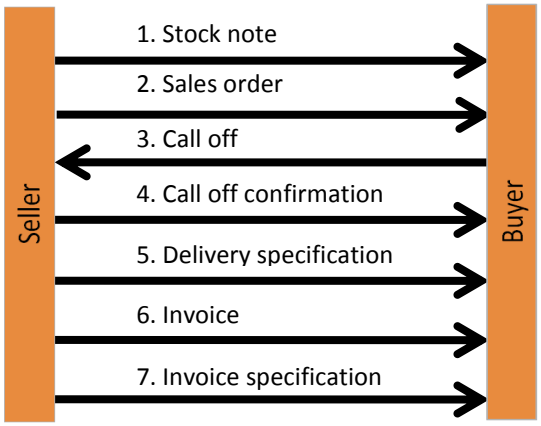
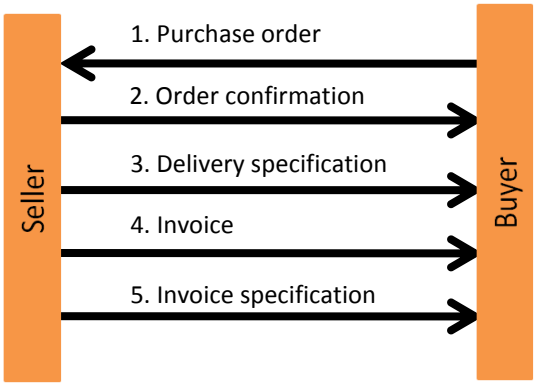
Business Transactions	Message	MessageType
	1. Availability	1. -
	2. OrderConfirmationWood	2. Agreement
	3. CallOffWood	3. CallOff
	4. CallOffWood	4. CallOffConfirmation
	5. DeliveryMessageWood	5. DeliveryMessage
	6. InvoiceWood	6. Invoice CreditNote/DebetNote
	7. DeliveryMessageWood	7. PackageSpecification

Figure 2. The business transaction of trading wood products to a builder merchant (CASE 2)

Business Transactions	Message	MessageType
	1. PurchaseOrderWood	1. PurchaseOrder
	2. OrderConfirmationWood	2. StandardOrder
	3. DeliveryMessageWood	3. DeliveryMessage
	4. InvoiceWood	4. Invoice CreditNote/DebetNote
	5. DeliveryMessageWood	5. PackageSpecification

2. USE CASES OF PURCHASE ORDER

Use case 1; mainly used in Builders and Merchants supply chain

The most common use case for PurchaseOrder is to be the first document in the business transaction chain. A purchase order is sent from buyer to the seller. A purchase order may cover one delivery of merchandise on one occasion or cover a time period with several deliveries. This Purchase Order is based on an agreement containing all legal details, pricing, rebates etc.

Use case 2; mainly traditional timber trade

There can be a stock note before the PurchaseOrder is issued and the PurchaseOrder can refer to the stock note document (Papinet message Availabilty).

It is also possible to refer to the packages on the stock note by referring them on the PurchaseOrderWoodLineItem PackageInformation to order specific packages.

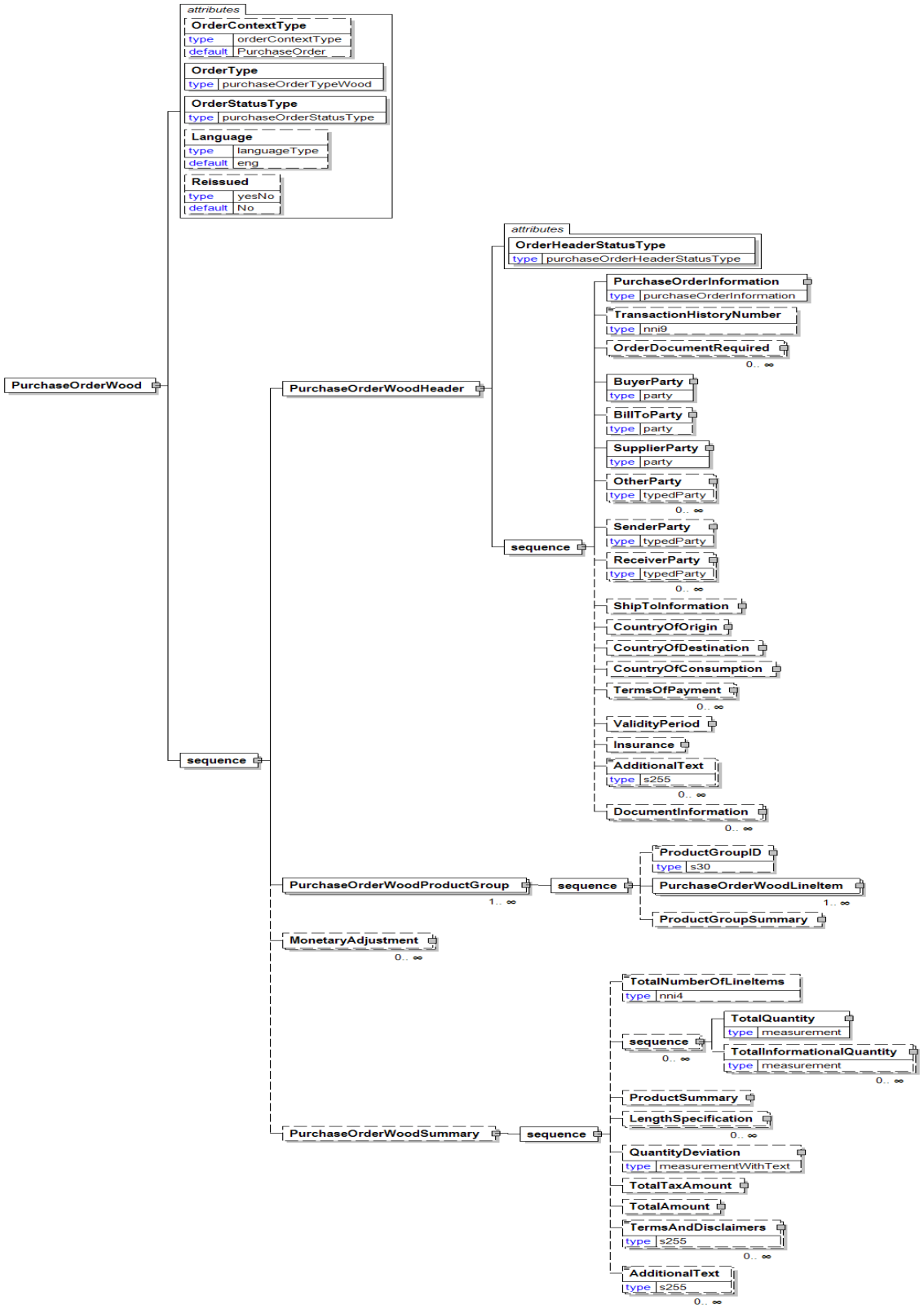
The stock note is not a legally binding document.

The legal status of the PurchaseOrder E-document is described in the Trading Partner Agreement.

Commonly in traditional timber trade there is Sales Contract finalizing the deal, Papinet WoodX standard for this document is the OrderConfirmationWood message type Agreement.

3. OVERVIEW OF PURCHASEORDER MESSAGE STRUCTURE

The figure below page describes the PurchaseOrder- message structure



4. E-DOCUMENT CONTENT

4.1 General

In this chapter there is an overview of the E-document. Elements are mentioned in basic level and the given text refers to the structure, eg. Partytype, AssignedBy. For detailed information of the elements in the XML-schema for the PurchaseOrderWood -message look at the related ISS excel documentation called implementation subset spreadsheet for PurchaseOrderWood.

Columns should be read as follows:

Data Item	data item name as documented in papiNet WoodX messages
Data description	data item as defined in papiNet Data Dictionary with WoodX specific definitions
M	mandatory data item

4.2 Root

Data Item	Description
PurchaseOrderWood	The root. This element contains the entity of the PurchaseOrderWood document.
- OrderType (M)	There is only one type eg. PurchaseOrder
- OrderStatusType (M)	Defines the status of the entire purchase order message, in other words, at the root level *This item is restricted to the following list.* **Amended** Either the seller or the buyer has changed the header information. **Cancelled** The buyer has cancelled a line item that was sent in a previous message. Lines that have been cancelled are not included in Totals on the Summary levels of the message. **Original** The message information is the first version of that information.

4.3 Header

Data Item	Description
- PurchaseOrderWoodHeader (M)	This element contains the information that is consistent for the entire PurchaseOrderWood document.
- - OrderHeaderStatusType (M)	Defines the status of the purchase order header. Eg. New
- - PurchaseOrderInformation (M)	A group item containing information unique to this purchase order, which is provided by the buyer.
- - BuyerParty (M)	The legal entity to which the product is sold. Also commonly referred to as the sold-to party or customer.
- - BillToParty	BillToParty is used if a different entity than BuyerParty is invoiced
- - SupplierParty (M)	The organisation or business entity responsible for providing the product. SupplierParty is also the seller of the product, if Seller is not specified as OtherParty = Seller.
- - OtherParty	An organisation or business entity other than those specifically detailed within a business document.
- - SenderParty	The business entity issuing the business document, the source of the document.
- - ReceiverParty	The business entity for whom the business document is intended, the destination of the document.
- - ShipToInformation (M)	Group element containing information about the ship to and delivery of a product.
- - CountryOfOrigin	The country of origin for the material.
- - CountryOfDestination	The country where the goods will be, or were, shipped to.
- - CountryOfConsumption	The country of consumption for the material.
- - TermsOfPayment	A group item that contains agreed-to terms defining when, how, and under what conditions the payment is to be made.
- - AdditionalText	A text field that is used to communicate information not previously defined or for special instructions. To be used only for circumstances not covered by specific elements.

4.4 Line

Data Item	Description
- PurchaseOrderWoodProductGroup (M)	PurchaseOrderWoodProductGroupis a required, multiple instances element.
- - PurchaseOrderWoodLineItem (M)	Purchase Order Wood Line Item.
- - - OrderLineItemStatusType (M)	Defines the status of the purchase order line item.
- - - PurchaseOrderLineItemNumber (M)	The sequential number that uniquely identifies the purchase order line item.
- - - DocumentReferenceInformation	A group item containing reference information applicable to a document.
- - - Product	Product is a group item defining the article and its characteristics. Product is used to specify product characteristics organized by ProductIdentifier, ProductDescription, and Classification.
- - - - - ProductIdentifier	Used to communicate the code of the article, in a variety of formats designated by the type.

Data Item	Description
- - - - - ProductDescription	An element used to communicate a human readable description of the product in the language specified by the Language attribute.
- - - PriceDetails	An element that groups together price information.
- - - - PriceQuantityBasis (M)	The basis for the determination of the price.
- - - - PricePerUnit (M)	PricePerUnit is an element designed to support flexibility in price representation. This structure is read as CurrencyValue per MeasurementValue, or alternatively CurrencyValue per number of UOM(s).
- - - LineBaseAmount	Quantity time the base unit price.
- - - QuantityOrderedInformation	Used to identify quantity. The construct provides via InformationalQuantity the ability to provide the Quantity in another UOM. Length is also provided to further specify the quantity.
- - - - Quantity (M)	The Quantity element contains attributes that provide information about the type of quantity that is being communicated, the context in which the particular quantity is to be viewed, and (if the quantity represents an adjustment) an adjustment type. The Quantity element contains three child elements that enable you to communicate a range of values for the quantity and a target or actual value. It is at this level (Value, RangeMin, and RangeMax) that the unit of measure is specified. This permits the range to be specified in a different unit of measure than the target.
- - - - - DeliverySchedule	The delivery schedule structure is handled the same way on the line level as on the header level. This is used if there are different shipto parties or different delivery times. A group item defining a series of DeliveryDateWindow(s) in which specified quantities must be delivered.
- - - SafetyAndEnvironmental Information	Use this to define certificate of the goods. Structure needs a value or measurement to communicate the percentage of the product is certified, eg 75% is certified by the indicated agency.
- - - - SafetyAnd EnvironmentalCertification	Safety and Environmental Certification

4.5 Message summary

Data Item	Description
- PurchaseOrderWoodSummary (M)	Summary section of purchase order for wood vertical.
- - TotalNumberOfLineItems	The total number of individual line items in the document.
- - - TotalQuantity (M)	The total quantity of similar items in the business document. TotalQuantity is primarily used in the summary section of documents where it is repeatable to permit totalling for different units of measure.
- - AdditionalText	A text field that is used to communicate information not previously defined or for special instructions. To be used only for circumstances not covered by specific elements.

5. BUSINESS RULES

The following table lists the specific business rules that apply to PurchaseOrderWood Message type PurchaseOrder.

Business Rules
A PurchaseOrderWoodLineItem is uniquely identified by a PurchaseOrderLineItemNumber, which is never deleted even if the PurchaseOrderWoodLineItem is cancelled.
A PurchaseOrderWood header can specify only one ShipToParty. The partner can, however, specify multiple ship-to parties at the PurchaseOrderWoodLineItem level. If doing so, ShipToParty has to be added on all lines. A PurchaseOrderWoodLineItem ShipToParty overrides a PurchaseOrderWoodHeader ShipToParty.
Transport information is optional. It may appear at either the PurchaseOrderWoodHeader or the PurchaseOrderWoodLineItem level, depending on transport requirements. The information in the PurchaseOrderWoodLineItem overrides the information at the PurchaseOrderWoodHeader.
DeliveryStatus defines if the delivery is allowed according the original PurchaseOrder or if an amended PurchaseOrder or a CallOff is needed.

6. REVISION HISTORY OF THIS DOCUMENT

Date	Change
30.9.2008	Document version 1.0, for V2.31
10.12.2009	Updated /PPesonen

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