



papiNet

Delivery Message (Wood)

papiNet Standard - Version 2.31

Documentation

**Global Standard for the Paper and Forest
Products Supply Chain**

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DeliveryMessageWood Documentation

An Overview of the Delivery Message

The Delivery Message specifies the details of a delivery that is either being despatched or will be despatched at a later time. The Delivery Message Type controls the usage of the delivery message. A seller can send a delivery message to one or more receivers, including the ship-to and/or buyer parties. Delivery messages are also sent to and from logistics partners.

The delivery message is used as a response to Call Off, Delivery Instruction and Loading Instruction messages when a delivery from a warehouse is requested. A delivery message fulfils the same or similar role as a delivery note, manifest, weight list, tally sheet, advanced shipping notice, loading order, or packing specification.

The Scope of the Delivery Message

The delivery message can include:

- The date on which goods were despatched or will be ready for despatch.
- Consignment details for example, order, package identifiers, and volumes.
- Tracking details (such as the route of delivery).

Using this information, the seller can:

- Make the transport booking
- Send a confirmation for a customers call off
- Can be used for transport booking.
- Create a delivery plan

It is also used as an internal work order for the shipment department.

Using this information, the buyer can:

- Prepare for receipt of goods.
- Reconcile the physically delivered goods with those contained in the delivery message.
- Reconcile the list of delivered goods with the invoice for those goods.

Using this information, the seller/buyer can:

- Begin the customs clearance process, in the case of international consignments.
- A delivery message cannot be used to return goods to the seller.

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DeliveryMessageType [attribute]

DeliveryMessageType defines the type of delivery message.

This item is restricted to the following list.

attribute	
DeliveryMessageType	
type	deliveryMessageType.Wood

DeliveryMessage

A delivery message type that contains optional routing information, quantities at the DeliveryMessageLineItem level, and details at the DeliveryMessageLineItemDetail level. The seller uses a DeliveryMessage to provide delivery details to the ship-to party and tracking information.

InitialShipmentAdvice

A delivery message type that contains detailed routing information, quantities at the DeliveryMessageLineItem level and optionally details at the DeliveryMessageLineItemDetail level. The seller uses the InitialShipmentAdvice to provide preliminary notification of shipment routing and quantities (can be used as an advanced notice of delivery). The quantities indicated may not necessarily be delivered—for example, if there is damage in transit or the delivery is rerouted to another destination.

LoadingOrder

Specifies delivery schedule, the transport booking requirements and shipping instructions, as well as the internal work order for the shipment

PackingSpecification

A Packing Specification is a business transaction specifying the complete consignment being shipped from a consignor to a consignee. The specification describes in detail what is being shipped and how it is packed and marked.

ShipmentAdvice

A Delivery Message type that contains a specification of goods, that are dispatched and will be delivered to a warehouse. A ShipmentAdvice can refer to a Delivery Instruction Sequence or a CallOff, but is normally also used for notifying a receiving warehouse operator of shipments to the warehouse.

Business Rules for DeliveryMessageWood

The following table lists the business rules that apply to all delivery message types.

General Business Rules for DeliveryMessageWood

Identifier	Business Rule
DEL001	There are four types of delivery messages: Loading Order, Package Specification, DeliveryMessage, and InitialShipmentAdvice.

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Identifier	Business Rule
DEL002	One or more DeliveryLeg(s) specify the delivery route.
DEL003	Each DeliveryLeg may include transport information that details the mode, vehicle, unit, and loading information.
DEL004	A DeliveryMessage contains a reference to one or more Order(s) and one or more PurchaseOrderLineItem(s) of those Order(s).
DEL005	[obsolete]
DEL006	A DeliveryMessage contains one or more DeliveryMessageLineItem(s) ordered by DeliveryMessageLineItemNumber.
DEL007	Each DeliveryMessageLineItem refers to only one PurchaseOrderLineItem from one Order.
DEL008	In the case of a mixed pallet with multiple products from different PurchaseOrderLineItem(s), the same pallet identifier can be included in multiple DeliveryMessageLineItem(s).
DEL009	Each DeliveryMessageLineItem can contain one or more PackageInformation elements.
DEL010	PackageInformation enumerates delivered physical items.
DEL011	See following tables for different message types.
DEL012	PackageInformation is a hierarchy that represents package details. Each level has an identifier field used to specify the package.
DEL013	Delivery messages must be processed in ascending date time order using DeliveryMessageDate to ensure the correct processing of replacements and/or cancellations.
DEL014	If the seller sets the DeliveryMessageStatusType attribute to Replaced or Cancelled, the

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Identifier	Business Rule
	OriginalDeliveryNumber must be present in DeliveryMessageReference.

General Business Rules for DeliveryMessageWood, DeliveryMessageType = DeliveryMessage

Identifier	Business Rule
DEL011a	PackageInformation is required for a DeliveryMessage.

General Business Rules for DeliveryMessageWood, DeliveryMessageType = InitialShipmentAdvice

Identifier	Business Rule
DEL011b	PackageInformation is optional for an InitialShipmentAdvice.

Processing the Delivery Message

Message processing depends on the message type and on the value in the status field at the message header level. All the Delivery message types have only one status field-DeliveryMessageStatusType at the message level. Seller or a representative of the seller is the only party that sends a delivery message. The message can be sent with one of three values in the DeliveryMessageStatusType field.

A Packing Specification is a business transaction specifying the complete consignment being shipped from a consignor to a consignee. The specification describes in detail what is being shipped and how it is packed and marked.

Status Values Used When Processing the Delivery Message

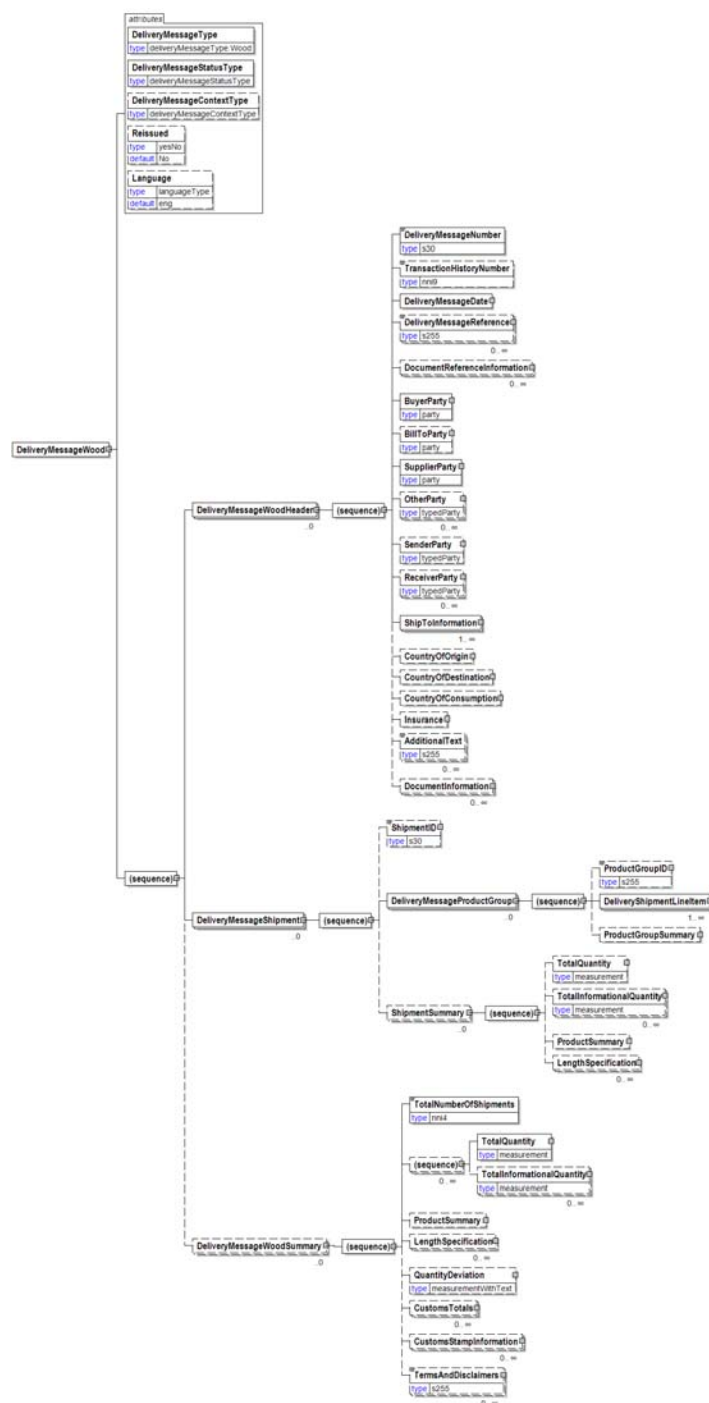
The following statuses are valid for the DeliveryMessageWood (@DeliveryMessageStatusType)

- Original - The supplied information is the first version of that information.
- Cancelled - Indicates that the seller wants to cancel the message
 - Per business rule DEL014, the seller must reference the OriginalDeliveryNumber of the original message if the delivery message's DeliveryMessageStatusType is set to Cancelled.
- Replaced - Indicates that the seller wants to replace the message.
 - Per business rule DEL014, the seller must reference the OriginalDeliveryNumber of the original message if the delivery message's DeliveryMessageStatusType is set to Replaced.

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DeliveryMessageWood Structure



Understanding the Diagrams and Content

This section provides a graphical view of the schema structures, a discussion of the item's children. You can find additional information about papiNet and the standard at www.papiNet.org.

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The graphics contain content model indicators, cardinality indicators, and data type information.

Associated with each graphic are the definitions for the parent item and any associated child items. All attributes are listed first, followed by the elements.

The following information should help you interpret and understand this standard. Please note the following:

- Content Model and Cardinality operate together to determine if the element or attribute are required in the instance document.
- The same attribute can never appear multiple times in the same element so, you will never see a multiple cardinality indicator.

Content model indicators:

There are three possible types of content: "sequence", "choice", and "all". The papiNet standard currently does not use the "all" construct.

- (sequence)

The sequence of the items to the right of the graphic (or below the text) is required.

- (choice)

A choice of the items to the right of the graphic (or below the text) is permitted.

- (all)

All the items to the right of the graphic are required.

Cardinality indicators:

- Dotted line around element or attribute.

A single instance of the item can optionally exist.

- Dotted line around item with range indicated below.

Multiple instances of the item can optionally exist.

- Solid line around item.

A single instance of the item must exist.

- Solid line around item with range indicated below

At least one instance must exist; multiple instances can optionally exist.

Datatype indication:

When a data type is assigned to an element (either a simple type or complex type the name of the data type is presented beneath the item name in the graphic.

- In some cases additional information about the data type is presented (the default value).

Elements can either have content that is textual/numeric in nature or content that is made up of additional elements and/or attributes.

- When the content is textual/numeric in nature "three straight horizontal lines" will appear in the upper left-hand corner of the graphic. Pay attention to these elements because they are where you will be entering

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your information.

- When the content is made up of additional elements and/or attributes a "gray-box" will appear on the right-hand side of the graphic.
- If the graphic shows both the horizontal lines and the gray-box then, in the papiNet standard, the content below the element are attributes.

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Delivery Message (Wood) Root Element

DeliveryMessageWood

This element contains the entirety of the DeliveryMessageWood document.

DeliveryMessageType [attribute]

DeliveryMessageType is mandatory. A single instance is required.

DeliveryMessageWood

DeliveryMessageType defines the type of delivery message.

This item is restricted to the following list.

DeliveryMessage

A delivery message type that contains optional routing information, quantities at the DeliveryMessageLineItem level, and details at the DeliveryMessageLineItemDetail level. The seller uses a DeliveryMessage to provide delivery details to the ship-to party and tracking information.

InitialShipmentAdvice

A delivery message type that contains detailed routing information, quantities at the DeliveryMessageLineItem level and optionally details at the DeliveryMessageLineItemDetail level. The seller uses the InitialShipmentAdvice to provide preliminary notification of shipment routing and quantities (can be used as an advanced notice of delivery). The quantities indicated may not necessarily be delivered—for example, if there is damage in transit or the delivery is rerouted to another destination.

LoadingOrder

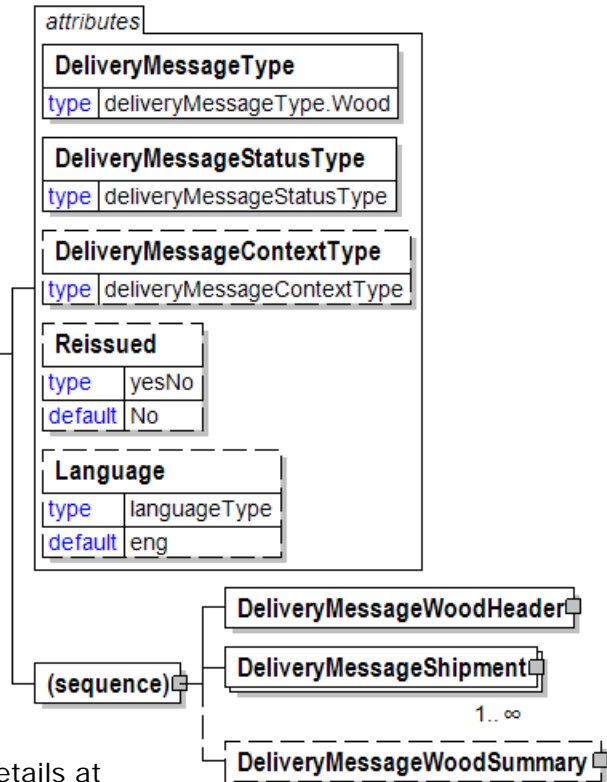
Specifies delivery schedule, the transport booking requirements and shipping instructions, as well as the internal work order for the shipment

PackingSpecification

A Packing Specification is a business transaction specifying the complete consignment being shipped from a consignor to a consignee. The specification describes in detail what is being shipped and how it is packed and marked.

ShipmentAdvice

A Delivery Message type that contains a specification of goods, that are dispatched



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and will be delivered to a warehouse. A ShipmentAdvice can refer to a Delivery Instruction Sequence or a CallOff, but is normally also used for notifying a receiving warehouse operator of shipments to the warehouse.

DeliveryMessageType [attribute]

DeliveryMessageType is mandatory. A single instance is required.

Identifies the status of the entire delivery message (in other words, at the root level).

This item is restricted to the following list.

Cancelled

The supplied information has been cancelled. Items that have been cancelled are not included in totals on the summary levels of the e-document.

Original

The supplied information is the first version of that information.

Replaced

The supplied information is replacing earlier supplied information. The receiver should revalidate the information in their system based upon the entire information received.

DeliveryMessageContextType [attribute]

DeliveryMessageContextType is optional. A single instance might exist.

Communicates the reason for this delivery. If not present then this is a standard, typical delivery.

This item is restricted to the following list.

Return

The delivery supports the goods return process.

Reissued [attribute]

Reissued is optional. A single instance might exist.

Either "Yes" or "No".

This item is restricted to the following list.

Yes

No

Language [attribute]

Language is optional. A single instance might exist.

XML has embraced 2 and 3 digit language codes through the application of an addendum to the standard.

Information on the content of this attribute is available at: <http://www.loc.gov/standards/iso639-2/> this is the official site of the ISO 639-2 Registration Authority.

- <http://www.w3.org/International/O-HTML-tags.html> provides an

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explanation of the errata updating XML.

- <http://www.ietf.org/rfc/rfc3066.txt> is the key document that is referenced in the above errata.

(sequence)

The sequence of items below is mandatory. A single instance is required.

DeliveryMessageWoodHeader

DeliveryMessageWoodHeader is mandatory. A single instance is required.

This element contains the information that is consistent for the entire DeliveryMessageWood document.

- Note: DocumentReferenceInformation will be removed from this element in the next version of papiNet. Use the DocumentInformation element instead.

DeliveryMessageShipment

DeliveryMessageShipment is mandatory. One instance is required, multiple instances might exist.

The DeliveryMessageShipment specifies an individual delivery shipment. It may contain product grouping within the shipment.

DeliveryMessageWoodSummary

DeliveryMessageWoodSummary is optional. A single instance might exist.

The DeliveryMessageWoodSummary contains summary information based on the line items contained in the DeliveryMessageWood document.

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Primary Elements

DeliveryMessageWoodHeader

This element contains the information that is consistent for the entire DeliveryMessageWood document.

- Note: DocumentReferenceInformation will be removed from this element in the next version of papiNet. Use the DocumentInformation element instead.

(sequence)

The contents of (sequence) are mandatory. A single instance is required.

DeliveryMessageNumber

DeliveryMessageNumber is mandatory. A single instance is required.

A unique delivery identifier assigned to each DeliveryMessage as agreed between the trading partners.

TransactionHistoryNumber

TransactionHistoryNumber is optional. A single instance might exist.

A sequential number that keeps track of the version of a document being sent by the document originator except in the case where TransactionHistoryConfirmation is used, in which case the TransactionHistoryNumber refers to the trigger transaction for which the confirmation is being sent.

DeliveryMessageDate

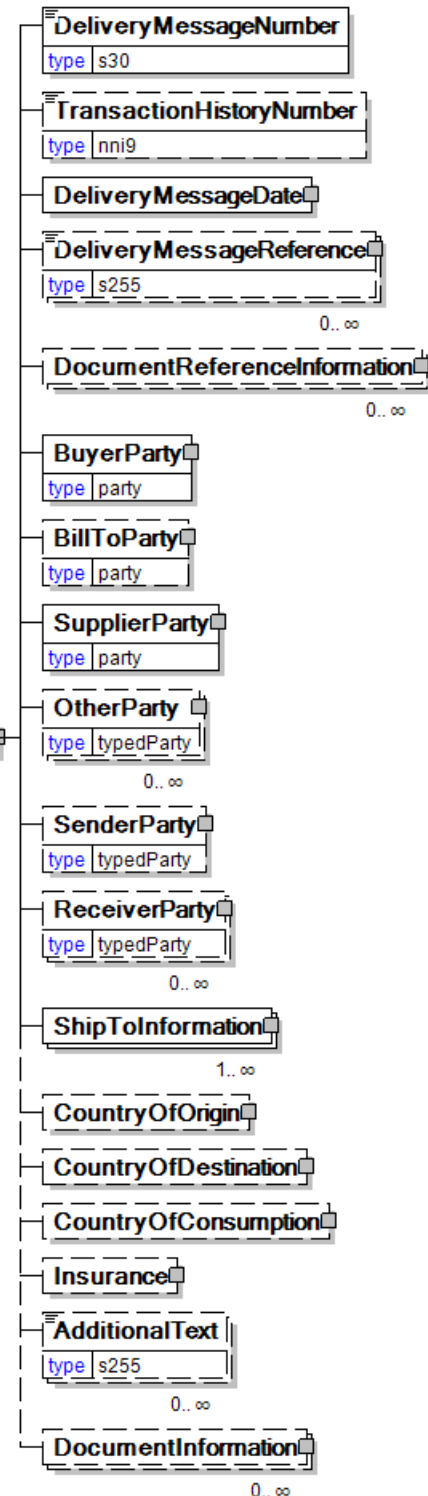
DeliveryMessageDate is mandatory. A single instance is required.

The Date and Time when the DeliveryMessage was issued.

DeliveryMessageReference

DeliveryMessageReference is optional. Multiple instances might exist.

An element that identifies the relevant references pertaining to the delivery message,



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identified by DeliveryMessageReferenceType.

DocumentReferenceInformation

DocumentReferenceInformation is optional. Multiple instances might exist.

A group item containing reference information applicable to a document.

BuyerParty

BuyerParty is mandatory. A single instance is required.

The legal entity to which the product is sold. Also commonly referred to as the sold-to party or customer. If no OtherParty is defined as the Payer, the Buyer is the Payer.

BillToParty

BillToParty is optional. A single instance might exist.

The address where the invoice is to be sent.

SupplierParty

SupplierParty is mandatory. A single instance is required.

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

OtherParty is optional. Multiple instances might exist.

An organisation or business entity other than those specifically detailed within a business document.

SenderParty

SenderParty is optional. A single instance might exist.

The business entity issuing the business document, the source of the document.

- This is the same entity as the "From" party in the ebXML message service envelope. The entity responsible for the content. If the sender party has outsourced the transmission function to a third party the sender party is the original party not the party performing the transmission service.

ReceiverParty

ReceiverParty is optional. Multiple instances might exist.

The business entity for whom the business document is intended, the destination of the document.

- This is the same entity as the "To" party in the ebXML message service envelope. The entity interested in the content. If the receiver party has outsourced the message receipt function to a third party the receiver party is the intended party not the party performing the receiving process.

ShipToInformation

ShipToInformation is mandatory. One instance is required, multiple instances might exist.

Group element containing information about the ship to and delivery of a product.

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CountryOfOrigin

CountryOfOrigin is optional. A single instance might exist.

The country of origin for the material.

CountryOfDestination

CountryOfDestination is optional. A single instance might exist.

The country where the goods will be, or were, shipped to.

CountryOfConsumption

CountryOfConsumption is optional. A single instance might exist.

The country of consumption for the material.

Insurance

Insurance is optional. A single instance might exist.

Group element containing information about insurance

AdditionalText

AdditionalText is optional. Multiple instances might exist.

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.

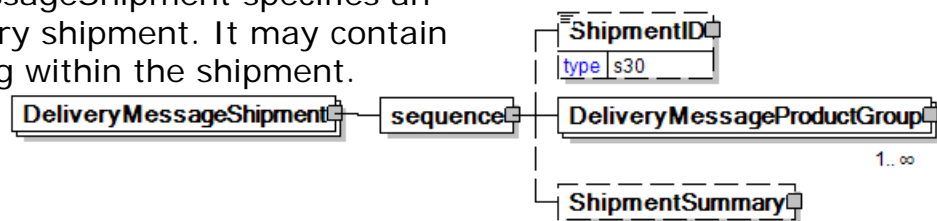
DocumentInformation

DocumentInformation is optional. Multiple instances might exist.

A group element containing a specification of required documents in the business process. Additional free text to be printed on documents can also be specified.

DeliveryMessageShipment

The DeliveryMessageShipment specifies an individual delivery shipment. It may contain product grouping within the shipment.



(sequence)

The contents of (sequence) are mandatory. A single instance is required.

ShipmentID

ShipmentID is optional. A single instance might exist.

The ShipmentID may be a Bill of Lading Marking, which is customer's reference mark on each package used for logistic purposes. Should not be mixed up with Bill of Lading number. Another example of ShipmentID is grouping by a ContainerID.

DeliveryMessageProductGroup

DeliveryMessageProductGroup is mandatory. One instance is required, multiple instances might exist.

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The DeliveryMessageProductGroup permits the organization of a shipment by a product grouping.

ShipmentSummary

ShipmentSummary is optional. A single instance might exist.

Summery information for an entire shipment

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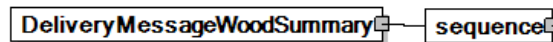
DeliveryMessageWoodSummary

The DeliveryMessageWoodSummary contains summary information based on the line items contained in the DeliveryMessageWood document.

(sequence)

The contents of (sequence) are mandatory. A single instance is required.

TotalNumberOfShipments



TotalNumberOfShipments is mandatory. A single instance is required.

Total number of shipments referred to in a delivery message.

(sequence)

The contents of (sequence) are optional. Multiple instances might exist.

TotalQuantity

TotalQuantity is mandatory. A single instance is required.

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 totaling for different units of measure.

TotalInformationalQuantity

TotalInformationalQuantity is optional. Multiple instances might exist.

A quantity that is used to communicate related information about the parent element. This element represents a total that is derived from individual line items.

ProductSummary

ProductSummary is optional. A single instance might exist.

Group of elements to provide summary information on product level.

LengthSpecification

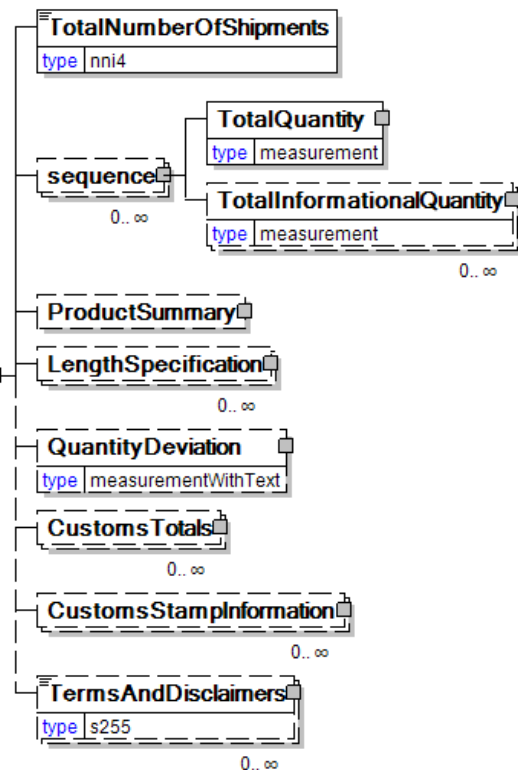
LengthSpecification is optional. Multiple instances might exist.

Length specification of the wood product.

QuantityDeviation

QuantityDeviation is optional. A single instance might exist.

Used to identify the deviation quantity accepted for this product.



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Quantity deviation is partly an ancient/traditional thing in timber trade and refers more to sea transport than others. Quantity deviation can concern both line level quantities and total quantities. Total quantity deviation is meant to really restrict volumes to exceed ship's capacity.

Example Quantity deviations used for total quantities are:

- CA./Max: for example, CA./max 1000 M3 = maximum quantity 1000 m3, but can be -10 % less (so 900 - 1000 m3 in this case)
- Min but Max: for example, min 45 max 50 m3 = volume to be between 45 and 50
- Min/Max: for example, min/max 500 m3 = have to be roughly accurate 500 m3
- CA: for example, CA 500 m3 = +-10 % (450 - 550 m3)

In some contracts, at the line level, it is said that product level variation can be +-10% (at the same time we can have deviation for total quantity)

- For example: You can have +-10 % volumes in line levels but total quantity must meet the following requirement - Min/Max 1000 m3.

CustomsTotals

CustomsTotals is optional. Multiple instances might exist.

A grouping element for customs total information.

CustomsStampInformation

CustomsStampInformation is optional. Multiple instances might exist.

A grouping element that organises the information for customs.

TermsAndDisclaimers

TermsAndDisclaimers is optional. Multiple instances might exist.

An element that contains legal information with an indication of what the Language is.

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DeliveryMessageWood Business Scenarios

DeliveryMessageWood Scenario Listing

These use cases includes Delivery Messages sent to communicate deliveries made to a terminal and as deliveries are made to a final Ship-To location. They should be used to get familiar with how XML is mapped from existing documents and where XML documents fit in the processing flow. Business Use Cases are given which contain common business examples and guidelines to formatting the XML.

Scenario A	A DeliveryMessageWood is sent that specifies shipment instructions to forwarder and internal shipping department
Scenario B	A DeliveryMessageWood is sent that specifies transport booking information to the carrier.
Scenario C	A DeliveryMessageWood is sent that specifies shipping information to the buyer.
Scenario D	A DeliveryMessageWood as a Package Specification.
Scenario E	A DeliveryMessageWood is sent that specifies multiple delivery legs.
Scenario F	A DeliveryMessageWood of type "InitialShipmentAdvice" is sent to the Buyer that does not include delivery items.
Scenario G	A DeliveryMessageWood is sent that corrects an erroneous DeliveryMessage.
Scenario H	A DeliveryMessageWood is sent that cancels an erroneous DeliveryMessageWood.

Scenario A

Message	DeliveryMessageWood
Type	LoadingOrder
Scenario	A DeliveryMessageWood is sent that specifies shipment instructions to forwarder and internal shipping department.
Outcome	Delivery is recorded as planned shipment to forwarders system

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Initiator	Supplier
Receiver	Forwarder, internal shipping department
Trigger	Call Off or Delivery Plan
Step 1.	<p>Supplier sends a Delivery Message that corresponds to one PurchaseOrderInformation, PurchaseOrderLineItemNumber combination. Each PackageInformation specifies either the Packages or the total volume for products that are planned to be sent</p> <ul style="list-style-type: none"> • PackageInformation can occur multiple times. • Identifier is the Identifier used to distinguish the Package • ItemCount is the count of the number of Pieces in the Package Quantity contains the Actual Volume of the Product or Packages, InformationalQuantity with QuantityType="Volume" specifies the Nominal volume of Product <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • DeliveryMessageStatusType = "Original"

Scenario B

Message	DeliveryMessageWood
Type	LoadingOrder
Scenario	A DeliveryMessageWood is sent that specifies planned volumes
Outcome	Delivery is recorded as planned shipment in the Carriers system
Initiator	Supplier
Receiver	Carrier
Trigger	Goods are ready for Delivery
Step 1.	<p>Supplier sends a Delivery Message that corresponds to one PurchaseOrderInformation, PurchaseOrderLineItemNumber combination. PackageInformation can occur multiple times.</p>

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	<ul style="list-style-type: none"> • Identifier is used to distinguish the package • ItemCount is the count of the number of Pieces in the Package • Quantity contains the Volume of the products or the number of packages • InformationalQuantity with QuantityType="Volume" specifies the Nominal volume of Product <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • DeliveryMessageStatusType = "Original"
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Scenario C

Message	DeliveryMessage
Type	LoadingOrder
Scenario	A DeliveryMessage-WoodProducts is sent that specifies planned/shipped volumes.
Outcome	Delivery is recorded as shipped in the Buyer's system
Initiator	Supplier
Receiver	Buyer
Preconditions	Goods have been planned to ship/shipped
Step 1.	<p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • DeliveryMessageStatusType = "Original" • Supplier sends a Delivery Message that corresponds to one PurchaseOrderInformation, PurchaseOrderLineItemNumber combination. PackageInformation can occur multiple times. • Identifier is used to distinguish the package • ItemCount is the count of the Number of Pieces in the Package • Quantity contains the Volume of the products or the number of packages • InformationalQuantity with QuantityType="Volume" specifies the

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	Nominal volume of Product.
--	----------------------------

Scenario D

Message	DeliveryMessageWood
Type	PackingSpecification
Scenario	A DeliveryMessage-WoodProducts is sent that details packages.
Outcome	Delivery is recorded as shipped in the Buyer's system
Initiator	Supplier
Receiver	Buyer
Preconditions	Goods are ready for Delivery
XML File	The name of any sample file.
Trigger	What starts the process?
Step 1.	<p>Supplier sends a Delivery Message that corresponds to one PurchaseOrderInformation, PurchaseOrderLineItemNumber combination. Each PackageInformation occurrence specifies the Boxes that contain the Reams that are sent and optionally may contain SheetItem information.</p> <ul style="list-style-type: none"> PackageInformation can occur multiple times. Identifier is the Identifier used to distinguish the package ItemCount is the count of the number of pieces in the package Quantity contains the Actual volume of the package InformationalQuantity with QuantityType = "Volume" specifies the nominal volume of the package <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> DeliveryMessageStatusType = "Original"

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Scenario E

Message	DeliveryMessageWood
Type	DeliveryMessage
Scenario	A DeliveryMessage is sent that specifies multiple DeliveryLeg(s).
Outcome	Delivery is recorded as shipped in the Buyer's system
Initiator	Supplier
Receiver	Buyer
Preconditions	Goods are ready for Delivery
XML File	The name of any sample file.
Trigger	What starts the process?
Step 1.	<p>Supplier sends a Delivery Message that has multiple DeliveryLeg(s) for the entire message. A DeliveryLeg details the actual transportation origin and destination. It includes:</p> <ul style="list-style-type: none"> • DeliveryLegSequenceNumber which increments starting at 1 • DeliveryOrigin includes the LocationType which specifies "CustomerFacility", "Mill", "Port", "Terminal" or "Warehouse" • DeliveryOrigin Date and Name are projected • For each DeliveryLeg, optional Transportation can be specified. • TransportModeCharacteristics includes the attribute TransportModeType (e.g. "Rail") • TransportVehicleCharacteristics includes the attribute TransportVehicleType (e.g. "TruckTrailer") • TransportUnitCharacteristics includes the attribute TransportUnitType (e.g. "TrailerID") • TransportUnitCharacteristics includes the TransportUnitIdentifier (e.g. ID of the Trailer)

Delivery Message (Wood)

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	<ul style="list-style-type: none">• TransportLoadingCharacteristics and TransportOtherInstructions further describe the Transportation• DeliveryTransitTime optionally projects the Days, Hours, and Minutes between Origin and Destination• DeliveryDestination includes the LocationType which specifies "CustomerFacility", "Mill", "Port", "Terminal" or "Warehouse"• DeliveryDestination Date and Name are projected <p>Statuses sent within the message:</p> <ul style="list-style-type: none">• DeliveryMessageStatusType = "Original"
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