



# papiNet

**Global Transaction Standards  
for the Paper Supply Chain**

**DeliveryMessage Documentation**

**Papinet Standard - Version 2.10**

**April 2003**

# DeliveryMessage Documentation - papiNet Standard - Version 2.10

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# DeliveryMessage Documentation - papiNet Standard - Version 2.10

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## Table of Contents

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|   |          |
|---|----------|
| <b>Copyright .....</b>  | <b>2</b> |
| Use of Documents in papiNet Implementations .....                 | 2        |
| Additional Copyright Information .....                            | 2        |
| <b>Message Documentation .....</b>                                | <b>5</b> |
| The Delivery Message .....  | 5        |
| An Overview of the Delivery Message .....                         | 5        |
| The Scope of the Delivery Message .....                           | 5        |
| Delivery Message Types .....                                      | 6        |
| Delivery Business Rules.....                                      | 6        |
| General Business Rules for DeliveryMessage.....                   | 6        |
| Business Rules for DeliveryMessage DeliveryMessageType.....       | 7        |
| Business Rules for InitialShipmentAdvice DeliveryMessageType..... | 7        |
| Processing the Delivery Message .....                             | 7        |
| Status Values Used When Processing the Delivery Message .....     | 8        |
| High-level UML Diagram of DeliveryMessage.....                    | 9        |
| Overview of Delivery Structure .....                              | 10       |
| Graphical Representation of the DeliveryMessage.....              | 11       |
| Delivery Message Schema Structure and Processing Logic .....      | 12       |
| DeliveryMessage Root .....  | 12       |
| DeliveryMessageHeader.....  | 13       |
| DeliveryMessageLineItem .....                                     | 14       |
| DeliveryMessageSummary .....                                      | 15       |
| Common Definition References - Element.....                       | 15       |
| AdditionalText.....   | 15       |
| BillToParty .....   | 15       |
| BuyerParty .....  | 16       |
| DeliveryLeg .....   | 16       |
| DeliveryMessageDate .....   | 17       |
| DeliveryMessageLineItemNumber .....                               | 17       |
| DeliveryMessageNumber.....  | 17       |
| DeliveryMessageReference .....                                    | 17       |
| InformationalQuantity .....                                       | 17       |
| MillCharacteristics.....  | 18       |
| NumberOfPackages.....   | 18       |
| OtherParty.....   | 18       |
| PackageInformation .....  | 19       |
| Product .....   | 20       |
| PurchaseOrderInformation .....                                    | 20       |
| PurchaseOrderLineItemNumber .....                                 | 20       |
| Quantity.....   | 21       |
| ReceiverParty.....  | 21       |
| SenderParty.....  | 21       |
| ShipToCharacteristics .....                                       | 22       |
| SupplierParty .....   | 22       |

# DeliveryMessage Documentation - papiNet Standard - Version 2.10

---

|   |    |
|---|----|
| TermsAndDisclaimers .....                         | 22 |
| TermsOfChartering .....                           | 22 |
| TotalInformationalQuantity .....                  | 23 |
| TotalNumberOfLineItems .....                      | 23 |
| TotalQuantity .....                               | 23 |
| TransactionHistoryNumber .....                    | 24 |
| TransportLoadingCharacteristics .....             | 24 |
| TransportModeCharacteristics .....                | 24 |
| TransportOtherInstructions .....                  | 25 |
| TransportUnitCharacteristics .....                | 25 |
| TransportVehicleCharacteristics .....             | 26 |
| ValidityPeriod .....                              | 26 |
| Common Definition References – Attributes .....   | 27 |
| DeliveryMessageReferenceType .....                | 27 |
| DeliveryMessageStatusType .....                   | 27 |
| DeliveryMessageType .....                         | 28 |
| Language .....                                    | 28 |
| referenceType .....                               | 29 |
| Reissued .....                                    | 34 |
| ShipmentComplete .....                            | 34 |
| statusType .....                                  | 34 |
| Additional Information for Delivery Message ..... | 35 |
| Using the PackageInformation element .....        | 35 |
| Business Use Cases .....                          | 41 |
| Listing of Business Use Cases .....               | 41 |
| Scenario A .....                                  | 42 |
| Scenario B .....                                  | 44 |
| Scenario C .....                                  | 46 |
| Scenario D .....                                  | 47 |
| Scenario E .....                                  | 49 |
| Scenario F .....                                  | 51 |
| Scenario G .....                                  | 54 |
| Scenario H .....                                  | 55 |
| Scenario I .....                                  | 56 |

# DeliveryMessage Documentation - papiNet Standard - Version 2.10

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## Message Documentation

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### The Delivery Message

#### An Overview of the Delivery Message

This message specifies the details of a shipment that is either being despatched or will be despatched at a later time. A seller sends a delivery message to one or more receivers, including the ship-to and/or buyer parties. A delivery message fulfils the same or similar role as a delivery note, manifest, weight list, tally sheet, advanced shipping notice, or packing list.

The seller should send the delivery message in sufficient time so the recipient can process the information before the goods arrive. The recipient can then prepare efficiently for the reception of the goods. A delivery message can trigger either an invoice or a direct payment.

There are two types of delivery message. The first, the initial shipment advice, is used to provide general information of a planned or actual shipment and can be used as an advanced notice of delivery. The second, the delivery message, is used to communicate to trading partners that a shipment has occurred with details of the items shipped and tracking information.

#### The Scope of the Delivery Message

The delivery message can include:

- The date on which goods were despatched or will be ready for despatch to a single ship-to party.
- Consignment details such as purchase order, reel identifiers, and weights.
- Tracking details (such as the route of delivery).

Using this information, the buyer can:

- Begin the customs clearance process, for international shipments.
- Prepare for receipt of goods.
- Reconcile the physically delivered goods with those reported.
- Reconcile the list of delivered goods with the invoice for those goods.

A delivery message cannot be used to return goods to the seller.

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## Delivery Message Types

There are two types of delivery message:

- Initial shipment advice
  - ✧ Issued by seller to inform the buyer and/or consignee that the order is ready for despatch or delivery (such as to a warehouse)
  - ✧ May precede a delivery message to inform the ship-to party or other interested parties that a shipment will be made
  - ✧ Provides planned shipment and routing information to the ship-to party or other interested parties
  - ✧ Does not necessarily include delivery item details, such as reel identifiers
- Delivery message
  - ✧ The most commonly used type
  - ✧ Used when goods are being shipped to a final destination
  - ✧ Describes the contents and configuration of a shipment at various levels of detail
  - ✧ Includes complete delivery line item details, such as reel identifiers and weights
  - ✧ The details provided on the delivery message may differ from those provided in the initial shipment advice

## Delivery Business Rules

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

### General Business Rules for DeliveryMessage

| Reference | Rule   |
|-----------|--|
| DEL001    | There are two types of delivery messages: DeliveryMessage and InitialShipmentAdvice.   |
| DEL002    | A DeliveryMessage can have only one ShipToParty.   |
| DEL003    | One or more DeliveryLeg(s) specify the delivery route.   |
| DEL004    | Each DeliveryLeg may include transport information that details the mode, vehicle, unit, and loading information.                          |
| DEL005    | A DeliveryMessage contains a reference to one or more PurchaseOrder(s) and one or more PurchaseOrderLineItem(s) of those PurchaseOrder(s). |
| DEL006    | A DeliveryMessage contains one or more DeliveryMessageLineItem(s) ordered by DeliveryMessageLineItemNumber.                                |

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

| Reference | Rule   |
|-----------|--|
| DEL007    | Each DeliveryMessageLineItem refers to only one PurchaseOrderLineItem from one PurchaseOrder.  |
| 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 for example, box, pallet, reels, or sheets. Each level has an identifier field used to specify the pallet, box, multi-reel, ream, or reel identifier according to defined numbering schemes. |
| 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 OriginalDeliveryNumber must be present in DeliveryMessageReference.   |

### Business Rules for DeliveryMessage DeliveryMessageType

| Reference | Rule  |
|-----------|---|
| DEL011a   | PackageInformation is required for a DeliveryMessage. |

### Business Rules for InitialShipmentAdvice DeliveryMessageType

| Reference | 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. Both DeliveryMessage and InitialShipmentAdvice have only one status field—DeliveryMessageStatusType at the message level. For the delivery message, both message types are processed in the same way.

The 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.

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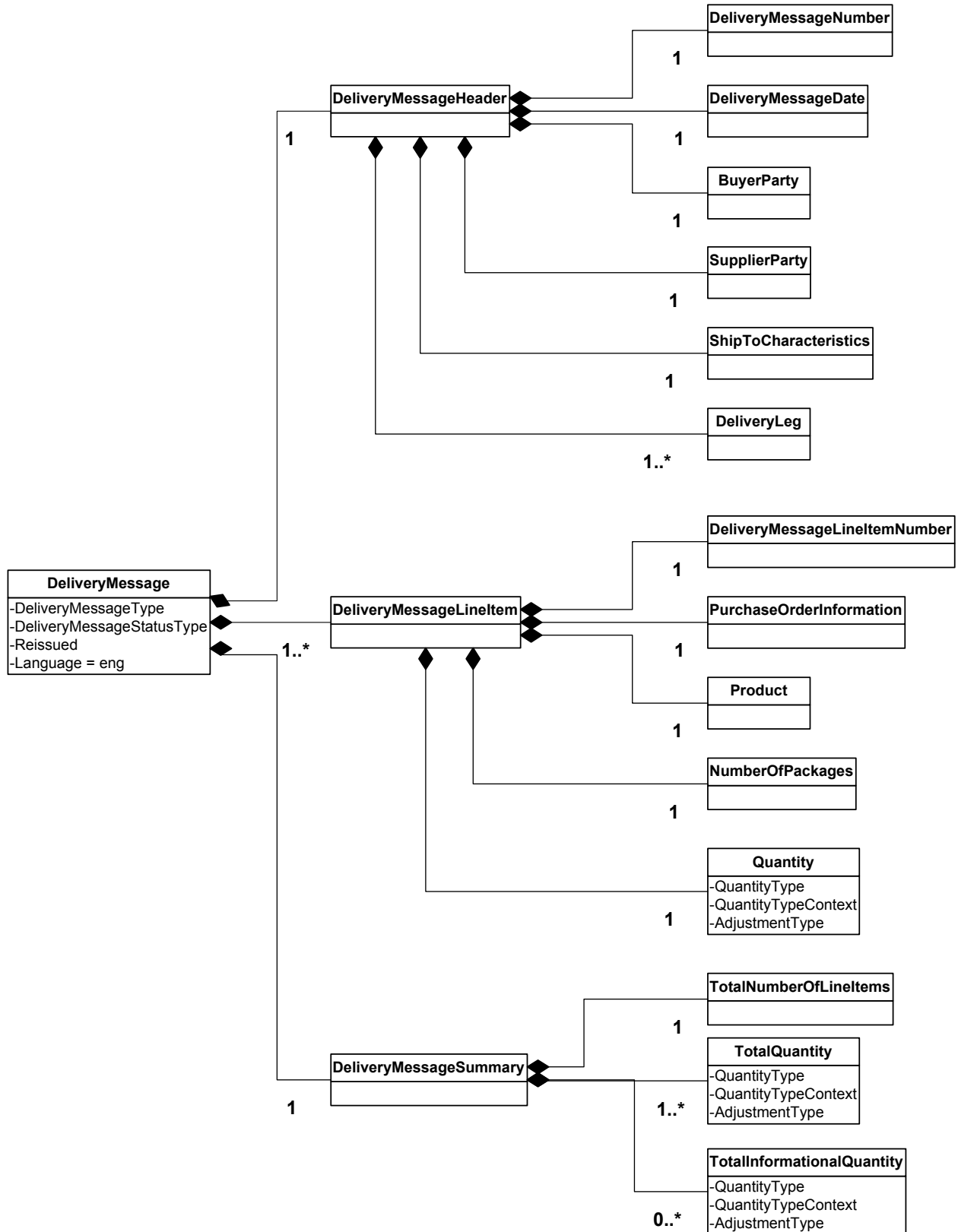
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### Status Values Used When Processing the Delivery Message

| Level   | Attribute                      | Value   |
|---------|--------------------------------|---|
| Message | DeliveryMessage-<br>StatusType | <p><b>Original</b> – Indicates that this is the first transmission of the message.</p> <p><b>Cancelled</b> – Indicates that the seller wants to cancel the message.</p> <ul style="list-style-type: none"> <li>✧ Per business rule DEL014, the seller must reference the OriginalDeliveryNumber of the original message if the delivery message’s DeliveryMessage-StatusType is set to Cancelled.</li> </ul> <p><b>Replaced</b> – Indicates that the seller wants to replace the message.</p> <ul style="list-style-type: none"> <li>✧ Per business rule DEL014, the seller must reference the OriginalDeliveryNumber of the original message if the delivery message’s DeliveryMessage-StatusType is set to Replaced.</li> </ul> |

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## High-level UML Diagram of DeliveryMessage



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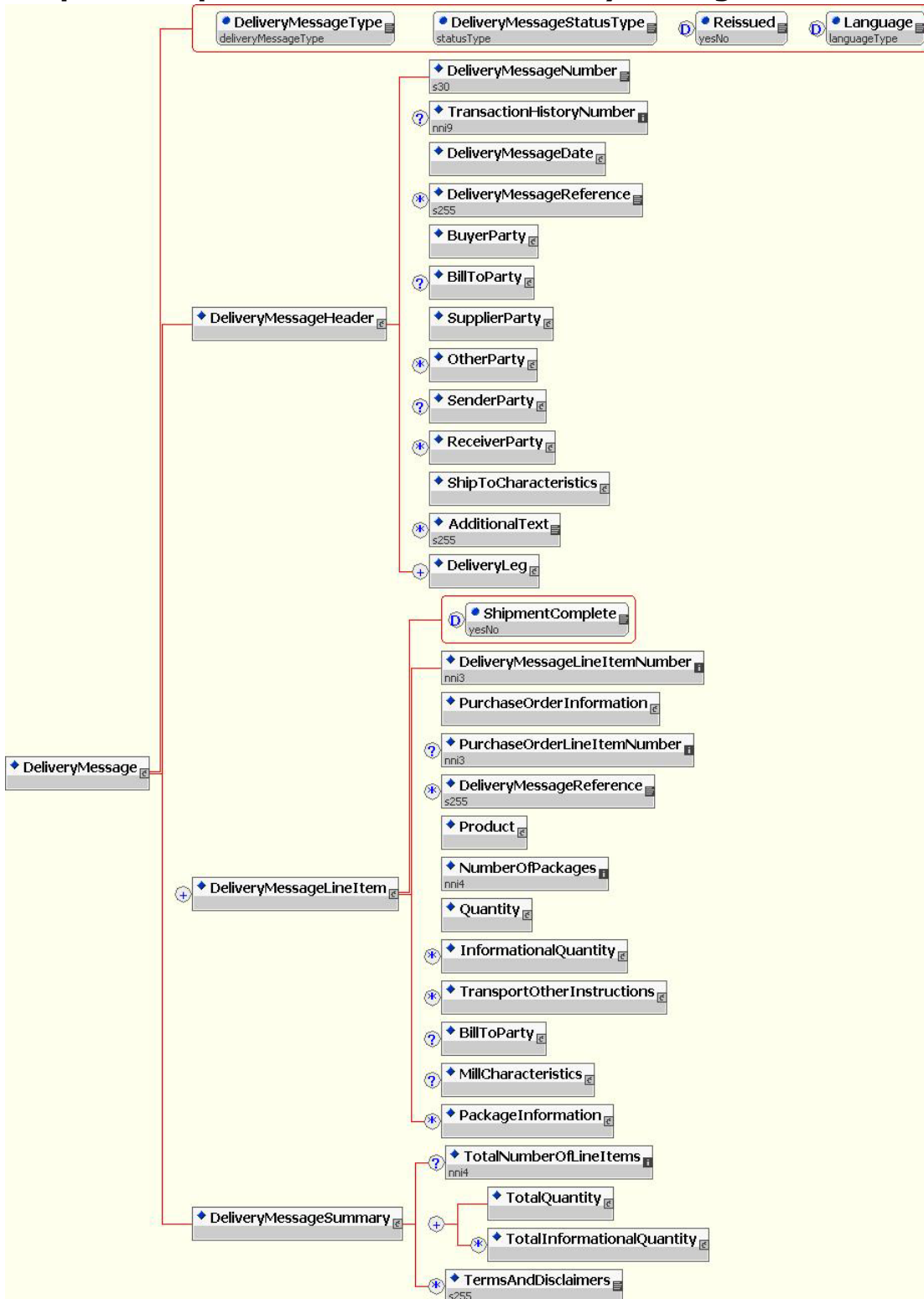
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### Overview of Delivery Structure

|                               | Type      | Required | Occurrence |
|-------------------------------|-----------|----------|------------|
| Delivery Message              | Root      | Required | Single     |
| @DeliveryMessageType          | Attribute | Required | Single     |
| @DeliveryMessageStatusType    | Attribute | Required | Single     |
| @Reissued                     | Attribute | Optional | Single     |
| @Language                     | Attribute | Optional | Single     |
| DeliveryMessageHeader         | Element   | Required | Single     |
| DeliveryMessageNumber         | Element   | Required | Single     |
| TransactionHistoryNumber      | Element   | Optional | Single     |
| DeliveryMessageDate           | Element   | Required | Single     |
| DeliveryMessageReference      | Element   | Optional | Multiple   |
| BuyerParty                    | Element   | Required | Single     |
| BillToParty                   | Element   | Optional | Single     |
| SupplierParty                 | Element   | Required | Single     |
| OtherParty                    | Element   | Optional | Multiple   |
| SenderParty                   | Element   | Optional | Single     |
| ReceiverParty                 | Element   | Optional | Multiple   |
| ShipToCharacteristics         | Element   | Required | Single     |
| AdditionalText                | Element   | Optional | Multiple   |
| DeliveryLeg                   | Element   | Required | Multiple   |
| DeliveryMessageLineItem       | Element   | Required | Multiple   |
| @ShipmentComplete             | Attribute | Optional | Single     |
| DeliveryMessageLineItemNumber | Element   | Required | Single     |
| PurchaseOrderInformation      | Element   | Required | Single     |
| PurchaseOrderLineItemNumber   | Element   | Required | Single     |
| DeliveryMessageReference      | Element   | Optional | Multiple   |
| Product                       | Element   | Required | Single     |
| NumberOfPackages              | Element   | Required | Single     |
| Quantity                      | Element   | Required | Single     |
| InformationalQuantity         | Element   | Optional | Multiple   |
| TransportOtherInstructions    | Element   | Optional | Multiple   |
| BillToParty                   | Element   | Optional | Single     |
| PackageInformation            | Element   | Optional | Multiple   |
| DeliveryMessageSummary        | Element   | Required | Single     |
| TotalNumberOfLineItems        | Element   | Optional | Single     |
| TotalQuantity                 | Element   | Required | Single     |
| TotalInformationalQuantity    | Element   | Optional | Multiple   |
| TermsAndDisclaimers           | Element   | Optional | Multiple   |

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## Graphical Representation of the DeliveryMessage



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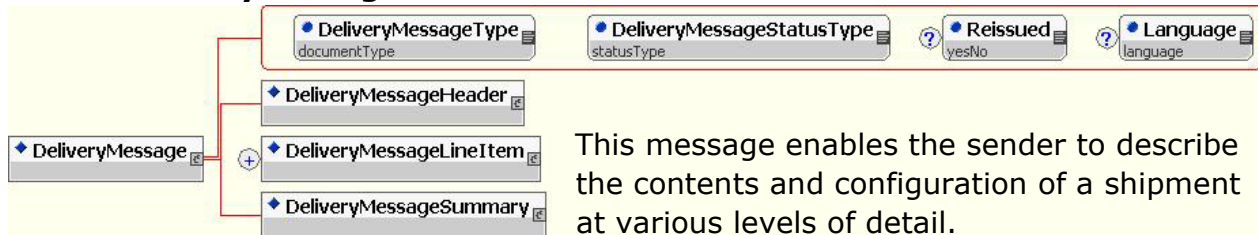
## Delivery Message Schema Structure and Processing Logic

This section provides a detailed graphical view of the DeliveryMessage Schema structure; the DeliveryMessage root element, the DeliveryMessageHeader, the DeliveryMessageLineItem, and the DeliveryMessageSummary. Discussions of the subordinates to DeliveryMessage can be found in the Glossary document and a review of the data-types can be found in the Design document (available at [www.papiNet.org](http://www.papiNet.org)). This section also contains a review of the processing logic that is special to the DeliveryMessage message.

The graphical display of the Schema contains occurrence indicators and data type information. These indicators appear to the left of the boxes in the schema graphic and they have the following meanings:

- (Blank) Required, single instance
- (+) Required, multiple instances
- (?) Optional, single instance
- (\*) Optional, multiple instances

### DeliveryMessage Root



The DeliveryMessage contains the following attributes:

- [DeliveryMessageType](#)
- [DeliveryMessageStatusType](#)
- [Reissued](#)
- [Language](#)

The DeliveryMessage contains the following elements:

- [DeliveryMessageHeader](#)
- [DeliveryMessageLineItem](#)
- [DeliveryMessageSummary](#)

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## DeliveryMessageHeader

The DeliveryMessageHeader is required and contains information common to the entire delivery:

- [DeliveryMessageNumber](#)
- [TransactionHistoryNumber](#)
- [DeliveryMessageDate](#)
- [DeliveryMessageReference](#)
- [BuyerParty](#)
- [BillToParty](#)
- [SupplierParty](#)
- [OtherParty](#)

- [SenderParty](#)
- [ReceiverParty](#)
- [ShipToCharacteristics](#)
- [AdditionalText](#)
- [DeliveryLeg](#)



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## DeliveryMessageLineItem

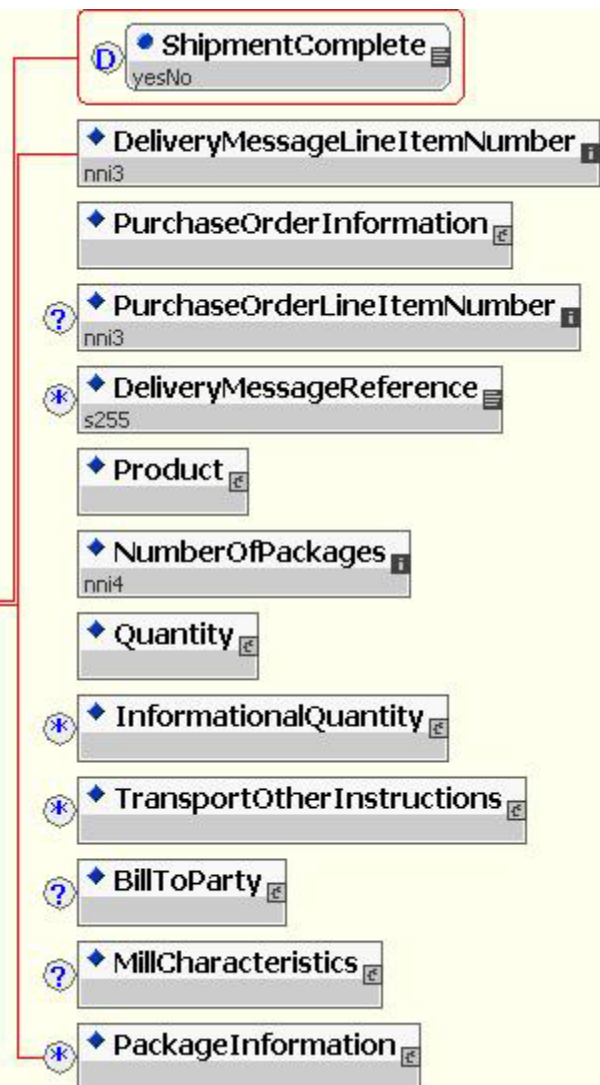
DeliveryMessageLineItem is required.

DeliveryMessageLineItem contains a ShipmentComplete attribute that defaults to "No", which is used to indicate that all shipments for the particular Purchase Order line item are complete.

The DeliveryMessageLineItem specifies an individual delivery line for one purchase order and purchase order line item. It contains these elements:

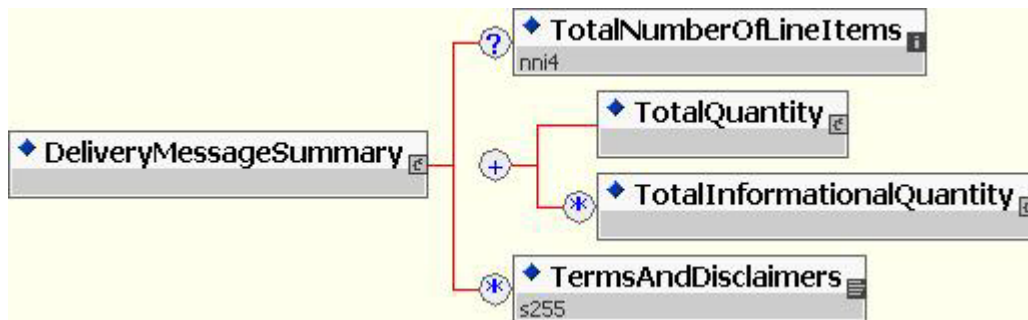


- [DeliveryMessage-LineItemNumber](#)
- [PurchaseOrderInformation](#)
- [PurchaseOrder-LineItemNumber](#)
- [DeliveryMessageReference](#)
- [Product](#)
- [NumberOfPackages](#)
- [Quantity](#)
- [InformationalQuantity](#)
- [TransportOtherInstructions](#)
- [BillToParty](#)
- [MillCharacteristics](#)
- [PackageInformation](#)



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## DeliveryMessageSummary



DeliveryMessageSummary contains the following elements:

- [TotalNumberOfLineItems](#)
- [TotalQuantity](#)
- [TotalInformationalQuantity](#)

TermsAndDisclaimers (optional) that includes any legal qualifications on his delivery

## Common Definition References - Element

### 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. This element is repeatable and limited to the number of characters that would normally fit across a page.

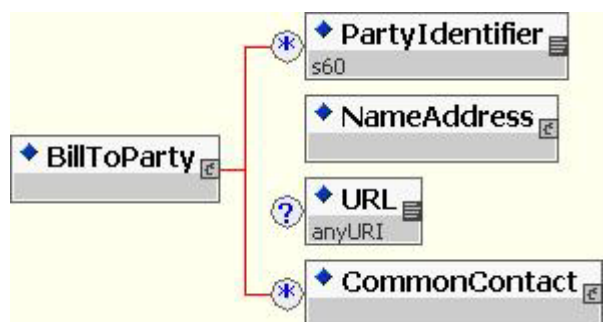


### BillToParty

The organisation or legal entity to which the invoice is to be sent. See [Party](#) for structure.

BuyerParty contains the following elements:

- [PartyIdentifier](#)
- [NameAddress](#)
- [URL](#)
- [CommonContact](#)



Refer to [Party](#) for additional information

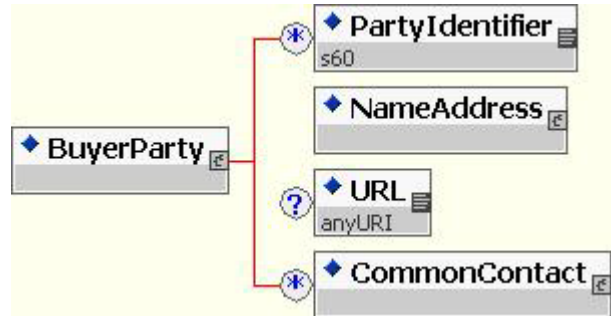
# DeliveryMessage Documentation - papiNet Standard - Version 2.10

## BuyerParty

The organisation or legal entity authorised to issue the purchase order. See [Party](#) for structure.

BuyerParty contains the following elements:

- [PartyIdentifier](#)
- [NameAddress](#)
- [URL](#)
- [CommonContact](#)



Refer to [Party](#) for additional information

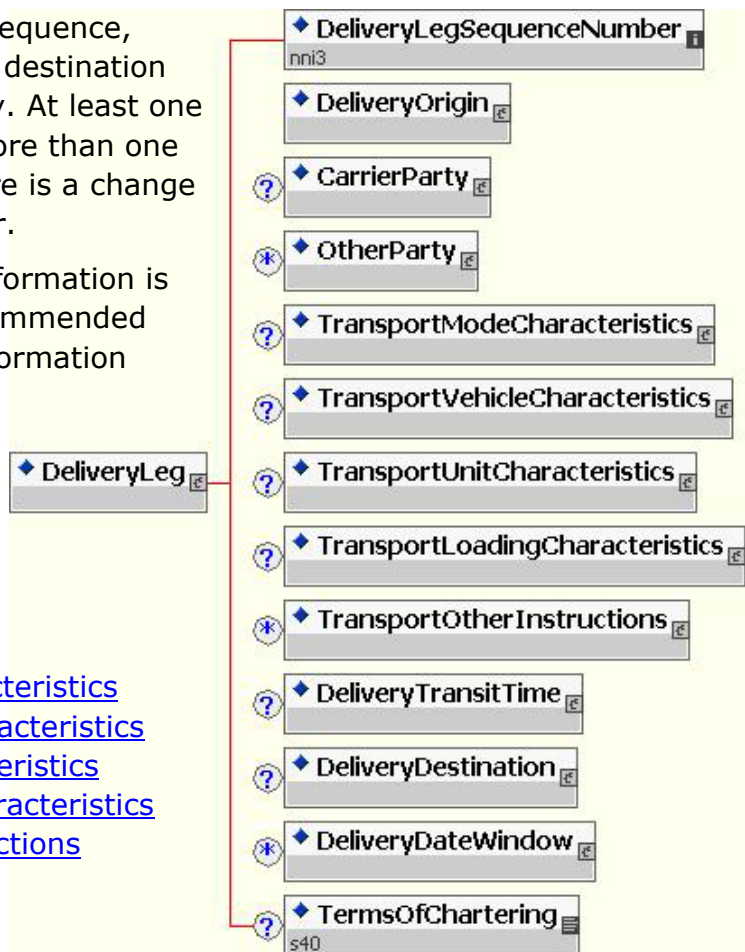
## DeliveryLeg

A DeliveryLeg details the sequence, origin, transportation, and destination of each part of the delivery. At least one DeliveryLeg is required. More than one leg may be required if there is a change of mode, vehicle, or carrier.

Although transportation information is optional, it is strongly recommended that any transportation information available be sent.

DeliveryLeg contains:

- [DeliveryLeg-SequenceNumber](#)
- [DeliveryOrigin](#)
- [CarrierParty](#)
- [OtherParty](#)
- [TransportModeCharacteristics](#)
- [TransportVehicleCharacteristics](#)
- [TransportUnitCharacteristics](#)
- [TransportLoadingCharacteristics](#)
- [TransportOtherInstructions](#)
- [DeliveryTransitTime](#)
- [DeliveryDestination](#)
- [DeliveryDateWindow](#)
- [TermsOfChartering](#)



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## DeliveryMessageDate

The [Date](#) and [Time](#) of the DeliveryMessage.



## DeliveryMessageLineItemNumber

The sequential number that uniquely identifies the delivery line item.



## DeliveryMessageNumber

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

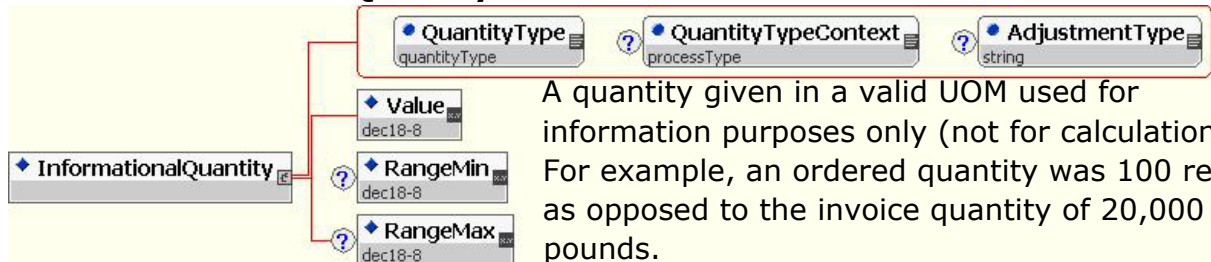


## DeliveryMessageReference



A repeating element that identifies the relevant references pertaining to the delivery message, identified by [DeliveryMessageReferenceType](#).

## InformationalQuantity



A quantity given in a valid UOM used for information purposes only (not for calculation). For example, an ordered quantity was 100 reels as opposed to the invoice quantity of 20,000 pounds.

InformationalQuantity contains the following attributes:

- [QuantityType](#)
- [QuantityTypeContext](#)
- [AdjustmentType](#)

And the following elements:

- [Value](#)
- [RangeMin](#)
- [RangeMax](#)

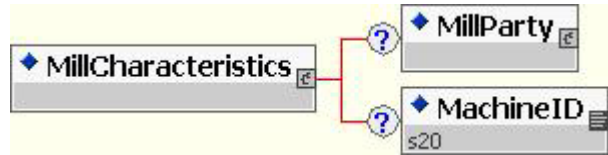
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## MillCharacteristics

A group item defining the mill location and machine ID of a product.

MillCharacteristics contains the following elements.

- [MillParty](#)
- [MachineID](#)



## NumberOfPackages

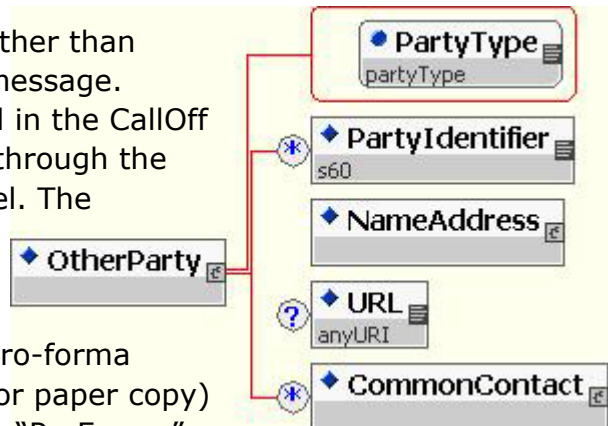
The number of packages in the delivery.



## OtherParty

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

- CallOff - If a carrier is specified in the CallOff message, this should be done through the CarrierParty on the header level. The PartyType "Carrier" should not be used.
- Invoice - The seller may generate multiple copies of a pro-forma invoice and a copy (electronic or paper copy) sent to the OtherParty that has "ProForma" assigned to the PartyType attribute.



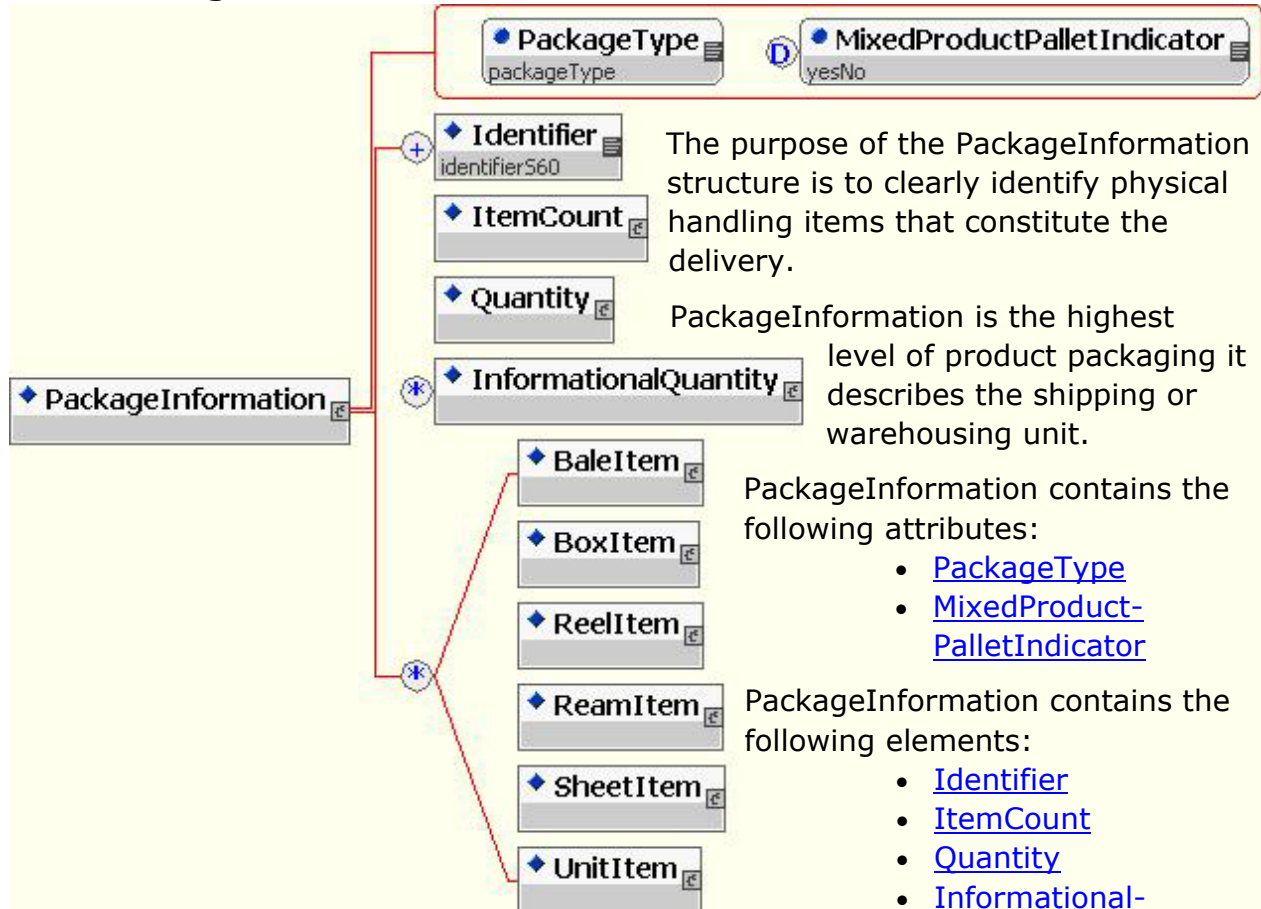
OtherParty contains the [PartyType](#) attribute.

OtherParty contains the following elements:

- [PartyIdentifier](#)
- [NameAddress](#)
- [URL](#)
- [CommonContact](#)
  - ✧ Refer to [Party](#) for additional information

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## PackageInformation



- [Quantity](#)
- [BaleItem](#)
- [BoxItem](#)
- [ReelItem](#)
- [ReamItem](#)
- [SheetItem](#)
- [UnitItem](#)

Each package, or handling unit, may be composed of further packages or items, for example, Pallets are composed of Boxes. This relationship is supported by the PackageInformation structure.

Note that use of further levels in the PackageInformation structure, that is Box, etc., is only required if:

- the components of the package themselves carry identifiers and this information is required for updating inventory systems
- detailed characteristics of the item may also be sent in the message

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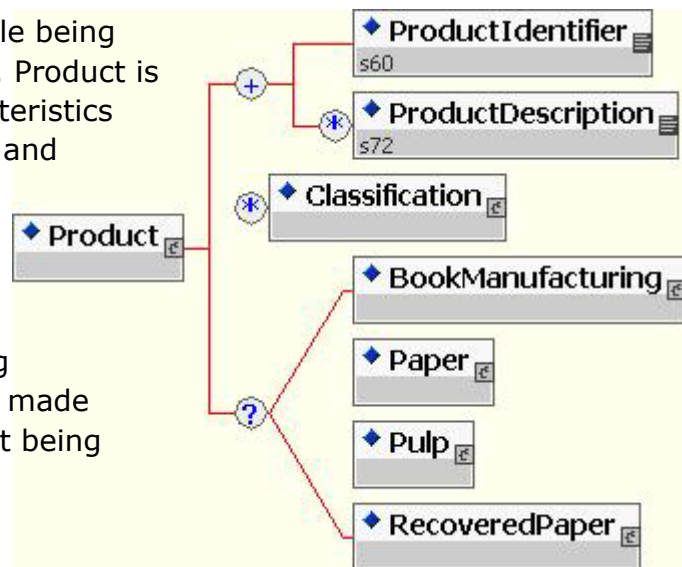
## Product

A group item defining the article being ordered and its characteristics. Product is used to specify product characteristics organized by ProductIdentifier and Classification.

- [ProductIdentifier](#)
- [ProductDescription](#)
- [Classification](#)

A choice of one of the following "market-segment" elements is made based upon the type of product being ordered.

- [BookManufacturing](#)
- [Paper](#)
- [Pulp](#)
- [RecoveredPaper](#)



Pulp and Paper are the only products whose characteristics and conversion features have been implemented in papiNet. Recovered Paper and Book Manufacturing are in process and additional product types are under consideration based upon user input.

## PurchaseOrderInformation

A group item containing information unique to this purchase order, which is provided by the



PurchaseOrderInformation has the following elements:

- [PurchaseOrderNumber](#)
- [PurchaseOrderReleaseNumber](#)
- [PurchaseOrderIssuedDate](#)
- [PurchaseOrderReference](#)



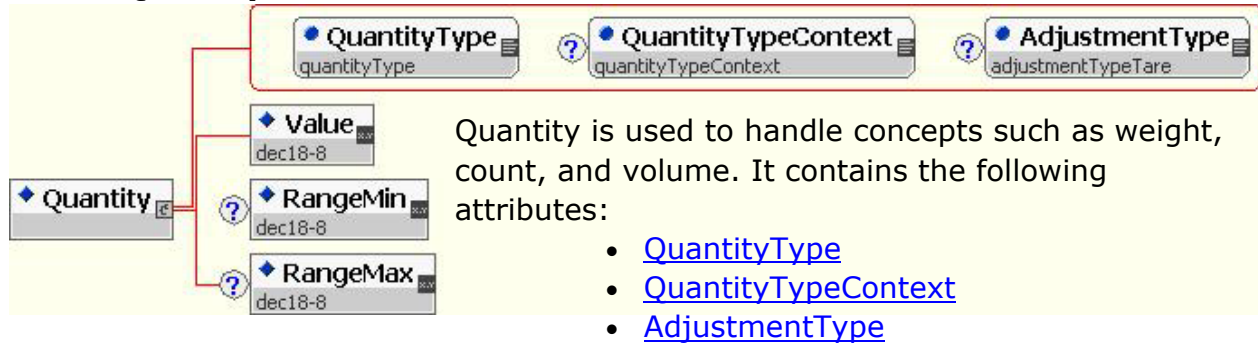
## PurchaseOrderLineItemNumber

The sequential number that uniquely identifies the purchase order line item.



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## Quantity



Quantity uses the [Measurement](#) group and has the following elements:

- [Value](#)
- [RangeMin](#)
- [RangeMax](#)

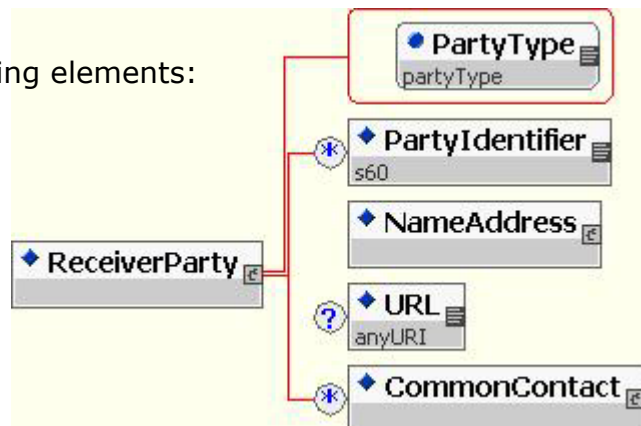
## ReceiverParty

The party for whom the information (message) is intended, typed by the attribute [PartyType](#).

ReceiverParty contains the following elements:

- [PartyIdentifier](#)
- [NameAddress](#)
- [URL](#)
- [CommonContact](#)

Refer to [Party](#) (in the Glossary) for additional information.



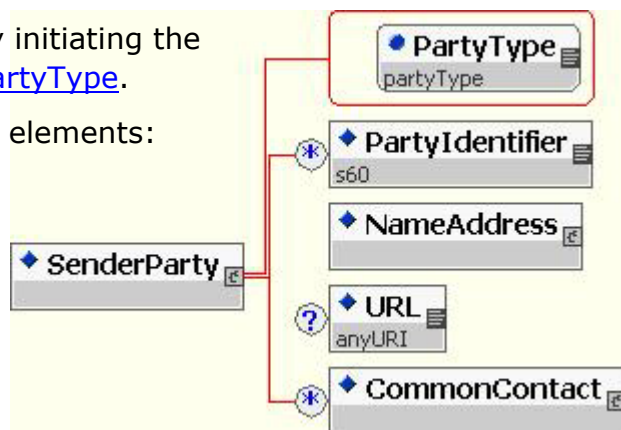
## SenderParty

The organisation or business entity initiating the message, typed by the attribute [PartyType](#).

SenderParty contains the following elements:

- [PartyIdentifier](#)
- [NameAddress](#)
- [URL](#)
- [CommonContact](#)

Refer to [Party](#) (in the Glossary) for additional information.



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## ShipToCharacteristics

A group item that provides information important for the Ship-To Party.

ShipToCharacteristics may be referenced at

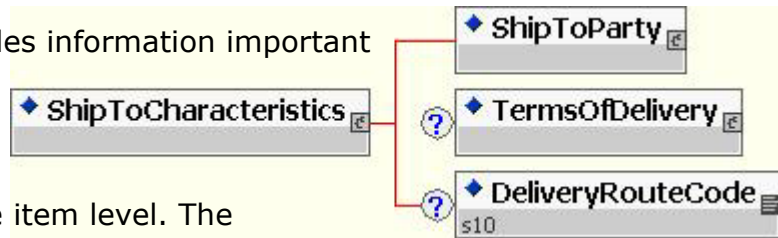
both the header and line item level. The

reference at the header is required and acts as a

default for the value at the line level, unless overridden at the line level.

ShipToCharacteristics contains the following elements:

- [ShipToParty](#)
- [TermsOfDelivery](#)
- [DeliveryRouteCode](#)

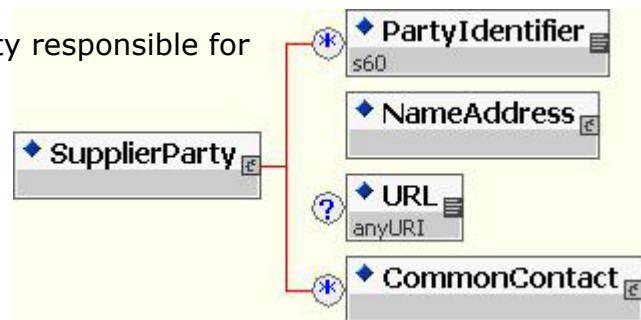


## SupplierParty

The organisation or business entity responsible for providing the product.

SupplierParty contains the following elements:

- [PartyIdentifier](#)
- [NameAddress](#)
- [URL](#)
- [CommonContact](#)



Refer to [Party](#) for additional information

## TermsAndDisclaimers

A repeatable element that contains legal information with an indication of what the [Language](#) is.



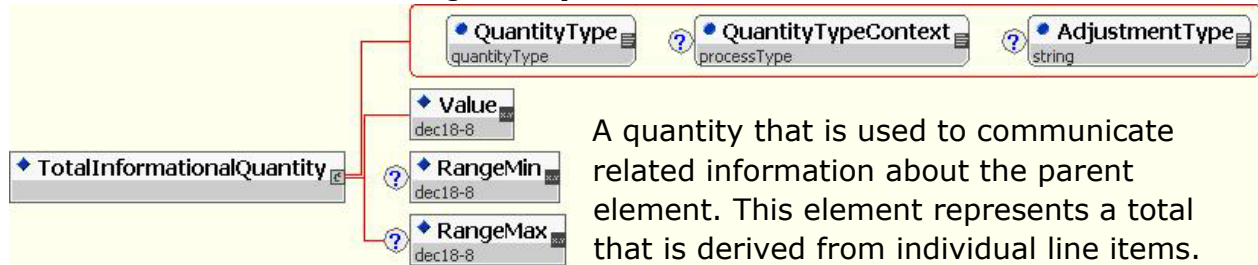
## TermsOfChartering

The terms of the vessel chartering.



# DeliveryMessage Documentation - papiNet Standard - Version 2.10

## TotalInformationalQuantity



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.

TotalInformationalQuantity contains the following attributes:

- [QuantityType](#)
- [QuantityTypeContext](#)
- [AdjustmentType](#)

TotalInformationalQuantity contains the following elements:

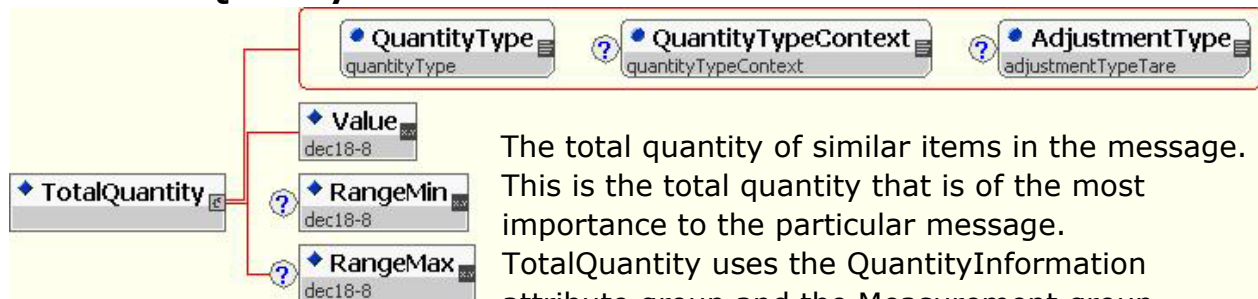
- [Value](#)
- [RangeMin](#)
- [RangeMax](#)

## TotalNumberOfLineItems

The total number of individual line items in the message.



## TotalQuantity



The total quantity of similar items in the message. This is the total quantity that is of the most importance to the particular message. TotalQuantity uses the QuantityInformation attribute group and the Measurement group

(element grouping).

TotalQuantity uses the following attributes:

- [QuantityType](#)
- [QuantityTypeContext](#)
- [AdjustmentType](#)

TotalQuantity uses the following elements:

- [Value](#)
- [RangeMin](#)
- [RangeMax](#)

# DeliveryMessage Documentation - papiNet Standard - Version 2.10

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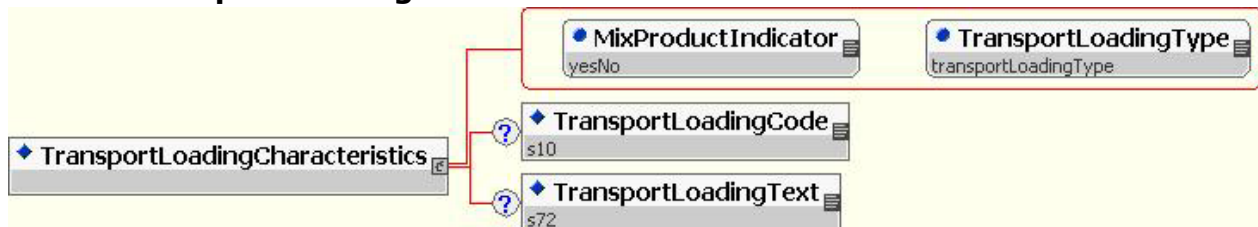
## TransactionHistoryNumber

A sequential number that keeps track of the version of any document being sent by the message originator.



**OrderConfirmation**– Used to associate an OrderConfirmation message with a specific PurchaseOrder message. This is the same number that was sent in the original purchase order.

## TransportLoadingCharacteristics



A group item defining how the transported items are to be loaded.

TransportLoadingCharacteristics contains the following attributes

- [MixProductIndicator](#)
- [TransportLoadingType](#)

TransportLoadingCharacteristics contains the following elements:

- [TransportLoadingCode](#)
- [TransportLoadingText](#)

## TransportModeCharacteristics

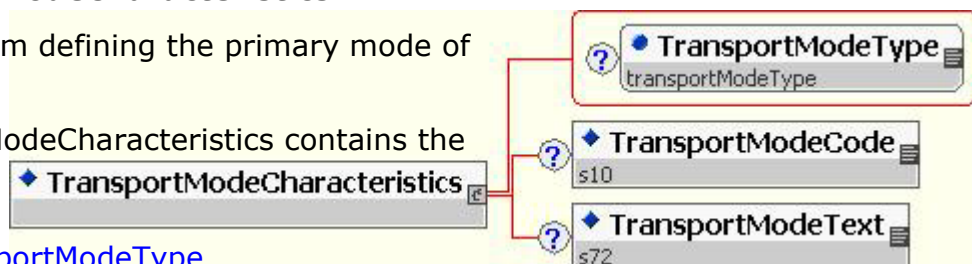
A group item defining the primary mode of transport.

TransportModeCharacteristics contains the following attribute:

- [TransportModeType](#)

TransportModeCharacteristics contains the following elements:

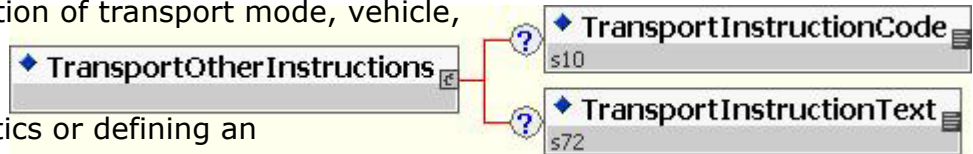
- [TransportModeCode](#)
- [TransportModeText](#)



# DeliveryMessage Documentation - papiNet Standard - Version 2.10

## TransportOtherInstructions

A group item defining any other instructions for the transport not covered in the description of transport mode, vehicle, unit, and loading characteristics or defining an alternative description for the categories mentioned above.



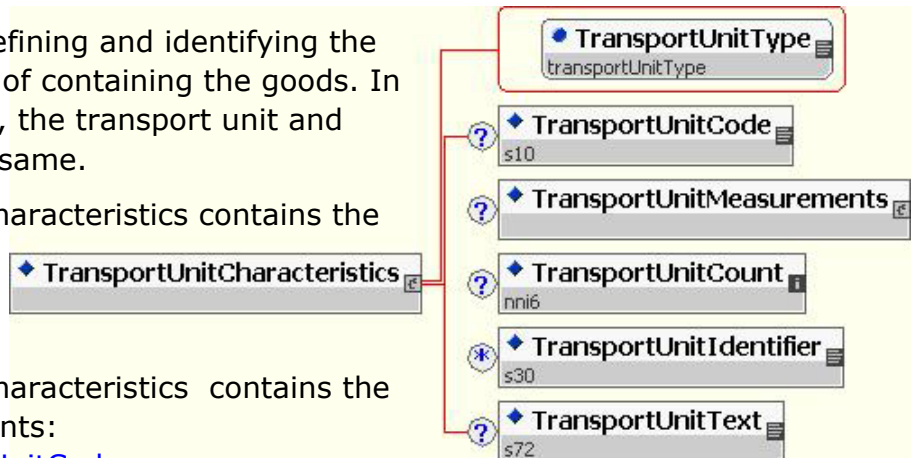
TransportOtherInstructions contains the following attributes:

- [TransportInstructionCode](#)
- [TransportInstructionText](#)

## TransportUnitCharacteristics

A group item defining and identifying the primary means of containing the goods. In some instances, the transport unit and vehicle are the same.

TransportUnitCharacteristics contains the [Transport-UnitType](#) attribute.



TransportUnitCharacteristics contains the following elements:

- [TransportUnitCode](#)
- [TransportUnitMeasurements](#)
- [TransportUnitCount](#)
  - ✧ This element is not required for the PurchaseOrder.
- [TransportUnitIdentifier](#)
  - ✧ This element is not required for the PurchaseOrder.
- [TransportUnitText](#)

# DeliveryMessage Documentation - papiNet Standard - Version 2.10

## TransportVehicleCharacteristics

A group item defining the primary means of transporting the goods, such as a side port vessel. In some instances, the transport unit and vehicle are the same.

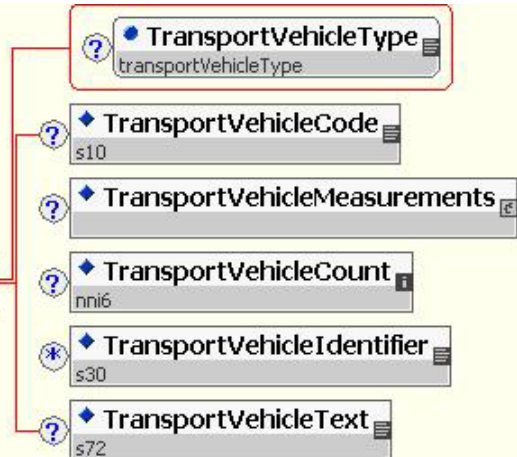
TransportVehicleCharacteristics contains the



[TransportVehicleType](#) attribute.

TransportVehicleCharacteristics contains the following elements:

- [TransportVehicleCode](#)
- [TransportVehicleMeasurements](#)
- [TransportVehicleCount](#)
  - ✧ This element is not required for the PurchaseOrder.
- [TransportVehicleIdentifier](#)
  - ✧ This element is not required for the PurchaseOrder.
- [TransportVehicleText](#)

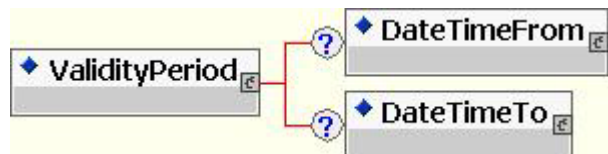


## ValidityPeriod

The validity period for a blanket purchase order or product attributes definition.

ValidityPeriod contains the following elements:

- [DateTimeFrom](#)
- [DateTimeTo](#)



# DeliveryMessage Documentation - papiNet Standard - Version 2.10

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## Common Definition References – Attributes

---

### DeliveryMessageReferenceType

DeliveryMessageReferenceType provides the context for the DeliveryMessageReference. It uses a restricted version of the [referenceType](#) data type.

**Used in:**

- DeliveryMessageReference

**Choices:**

- [BillOfLadingNumber](#)
- [CallOffLineItemNumber](#)
- [CallOffNumber](#)
- [CIMNumber](#)
- [CMRNumber](#)
- [ContractLineNumber](#)
- [ContractNumber](#)
- [CustomerReference-Number](#)
- [DeliveryBooking-Number](#)
- [DespatchInstruction-Number](#)
- [IndentOrderNumber](#)
- [InitialShipmentAdvice-Number](#)
- [IntraStatNumber](#)
- [ISODocument-Reference](#)
- [LotIdentifier](#)
- [MasterBillOfLading](#)
- [MillOrder-LineItemNumber](#)
- [MillOrderNumber](#)
- [OriginalDelivery-Number](#)
- [OriginalInvoiceNumber](#)
- [RunNumber](#)
- [StockOrderNumber](#)
- [SupplierCallOffNumber](#)
- [SupplierReference-Number](#)
- [SupplierVoyageNumber](#)
- [WarehouseDelivery-Number](#)

### DeliveryMessageStatusType

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

**Used in:**

- DeliveryMessage

**Choices:**

DeliveryMessageStatusType uses a restricted set of the [statusType](#) data type.

- [Cancelled](#)
- [Original](#)
- [Replaced](#)

# DeliveryMessage Documentation - papiNet Standard - Version 2.10

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## DeliveryMessageType

DeliveryMessageType defines the type of delivery message: either an initial shipment advice or a delivery message.

### Used in:

- DeliveryMessage

### Choices:

- **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.
- **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. The quantities indicated may not necessarily be delivered—for example, if there is damage in transit or the delivery is rerouted to another destination.

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## Language

XML has embraced 2 and 3 digit language codes through the application of an addendum to the standard. The various references are provided below.

papiNet has set the default value for Language to "eng". RFC3066 would indicate that it should be set to "en" however, we feel that it is more appropriate to use the content-rich 3-digit codes whenever possible.

### Used in:

- Availability
- Business-Acknowledgement
- CallOff
- Complaint
- ComplaintResponse
- CreditDebitNote
- DeliveryMessage
- DeliveryMessageBook
- EndUses
- GoodsReceipt
- InfoRequest
- InventoryChange
- InventoryStatus
- Invoice
- OrderConfirmation
- OrderStatus
- PackagingDescription
- ProductDescription
- ProductQuality
- PurchaseOrder
- RFQ
- RFQResponse
- ShippingInstructions

# DeliveryMessage Documentation - papiNet Standard - Version 2.10

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- SenderProduct-AttributesDescription
- TermsAndDisclaimers
- Usage

## Choices:

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

---

## referenceType

Provides a contextual explanation of the specific reference identifier

- **AccountNumber** - The unique reference number given to a financial account of the party involved in the transaction.
- **Author** - Name of the author of the product or book.
- **AudioVideoSelectionNumber** - Unique number given to every audio master. Used by duplicators and replicators.
- **BillOfLadingNumber** - The unique reference number given to a bill of lading document given to the carrier transporting the product; the bill of lading is a legal document that lists all the products that are being transported.
- **BookLanguage** - Language of the text of the book.
- **BuyerBudgetCenter** - Buyers internal cost-centre identifier.
- **BuyerClaimNumber** - A number assigned by the buyer to track their claim.
- **BuyerDivisionIdentifier** - Buyer's internal division identifier.
- **BuyerImprint** - Identifies which publisher's imprint to which this product belongs.
- **BuyerRetailPrice** - Cover price of the finished product.
- **CallOffLineItemNumber** - The specific line item number for the Call-Off.
- **CallOffNumber** - The unique reference number given to a call-off message. The call-off number of a previously sent call-off message can be referenced. For example, a seller can refer to a call-off number in a delivery message.
- **CIMNumber** - The unique reference number given to an international freight document for rail transport.
- **CMRNumber** - The unique reference number given to an international freight document for road transport.
- **ComplaintNumber** - The reference number associated with a complaint.

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

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- **ComplaintResponseNumber** – The reference number associated with a complaint response.
- **ContractLineNumber** - A particular line number of a contract. Note: To reference a contract line number, the seller or buyer must include a clear reference to the corresponding contract elsewhere in the message.
- **ContractNumber** - The unique reference number given to a mutual commercial/trading agreement between a buyer and a seller. The agreement can cover a quote, a bid, a contract, pricing, invoicing, and/or payment terms.
- **ConvertingReportNumber** – An identifier used to communicate which converting report is being referred to.
- **Copyright** – The year of publication copyright.
- **CreditDebitNoteNumber** – The number of the referenced Credit or Debit Note.
- **CustomerBookingNumber** – The customer’s number for the transit booking used to reference lines to be co-loaded on the same transport.
- **CustomerJobNumber** – an identifier for a specific job or task to which the forecast data is to apply, along with location and item.
- **CustomerJobTitle** – a name of a specific job or task to which the forecast data is to apply, along with location and item.
- **CustomerReferenceNumber** - A unique informational reference number passed on from the buyer to the seller. This number is meaningful only to the buyer.
- **DeliveryBookingNumber** – A number issued by the customer to schedule deliveries at their site.
- **DeliveryLocation** – The location to which product is to be delivered.
- **DespatchInformationNumber** -
- **DespatchInstructionNumber** – The unique reference number of the despatch instruction document. For example the despatch instructions sent from the mill to the warehouse.
- **Edition** – Buyer’s description of the version of the product edition. For example in book manufacturing values might be 2nd, Texas, Revised.
- **EndCallOffDate** – The last date that a call-off can be placed.
- **FormType** – type of printed signature. For book manufacturing, could be web, sheet, folded and gathered sig.
- **FromPurchaseOrderNumber** – The purchase order that is used as the source of information.
- **GoodsReceiptNumber** – The number of the goods receipt transaction that is being referred to.
- **IndentOrderNumber** - A unique reference number given to an order, which is to be delivered directly to the buyer’s own customer (typically

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

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a paper merchant). The reference value is passed from the buyer to the seller and the information content is meaningful only to the buyer.

- **InitialShipmentAdviceNumber** - The unique reference number given to an initial shipment advice message. The number of a previously sent initial shipment advice message can be referenced. For example, a seller can refer to an initial shipment advice number in a delivery message.
- **IntraStatNumber** The unique reference number given to product groups by the international authority Intrastat for statistical purposes. This number must be on the invoice when importing or exporting goods.
- **ISBN10** – 10 digit ISBN code without dashes
- **ISBN10Dash** – 10 digit ISBN code with dashes
- **ISBN13** – 13 digit ISBN code.
- **ISODocumentReference** -- A unique ISO 9002 / 9001 document identifier.
- **IssueEvent** – A task, or other type of event, related to the creation of an issue of a publication.
- **JobNumber** – An identifier for a step in the production, publication, or manufacturing process. Usually a job has as its scope the amount of work performed by a defined resource (person or equipment).
- **LotIdentifier** – A unique code used to identify a grouping of product with one set of quality statistics common to all members of that group.
- **MarketplaceReferenceNumber** – A number used by the marketplace to identify the information.
- **MasterBillOfLading** - The unique reference number given to a master bill of lading document, which contains multiple bills of lading. This is a legal document given to the carrier that transports the goods to multiple customers, each of which then receive a unique bill of lading document.
- **MasterContractNumber** – Contract number that is broader in terms of doing business between partners which for the book industry may, or may not include pricing.
- **MillOrderLineItemNumber** – The line number associated with the Mill Order Number.
- **MillOrderNumber** - The unique reference number created by the mill to identify a specific lot of paper with the same paper characteristics. This number may be used to identify a mill's internal order number, corresponding to all, or part of a buyer's purchase order.
- **MillSalesOfficeNumber** – The number used to identify the Mill's sales office.
- **OrderPartyReferenceNumber** – Reference number of the original order party.

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

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- **OriginalComplaintResponseNumber** - Reference number of the original ComplaintResponse.
- **OriginalDeliveryNumber** - The unique reference number given to a delivery message number sent previously that has been replaced in the meantime.
- **OriginalGoodsReceiptNumber** - The original unique identifier of the GoodsReceipt that is to be replaced.
- **OriginalInvoiceNumber** - The unique reference number given to an invoice message number sent previously that has been replaced in the meantime.
- **OriginalPurchaseOrderNumber** - The unique reference number given to a purchase order message number sent previously that has been replaced (through amendment or cancellation) in the meantime.
- **OriginalUsageNumber** - The unique reference number given to a usage message previously sent that has been replaced (through amendment or cancellation) in the meantime.
- **Other** - Used for any other reference that is not covered by this attribute list.
- **PackageNumber** - The unique reference number given to a manufacturer's product packaging designation.
- **PriceContractNumber** - Contract number that is specific to pricing.
- **PriceList** - The number used to identify the price list.
- **PrintingNumber** - Buyer's reference to the sequential print run number.
- **PubName** - The publication name.
- **PubNumber** - The publication number.
- **PupilsTeachers** - Description of the pupils/teachers edition specific to educational book products.
- **PurchaseOrderLineItemNumber** - a sequential number that uniquely identifies the purchase order line item.
- **PurchaseOrderNumber** - The unique reference number given to a purchase order message. The purchase order number of a previously sent order can be referenced. For example, a seller can refer to a purchase order number in an invoice message.
- **ReleaseNumber** - The unique sequential number given to the release of a reservation order, a contract, or a blanket order. Note: To reference a release number, the buyer or seller must have clearly referenced the corresponding purchase order elsewhere in the message.
- **RFQLineItemNumber** - The number used to identify the RFQ line item.

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

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- **RFQNumber** – The identifier of the RFQ. Usually provided when opening a purchase order that is derived from a request for quote (RFQ).
- **RunNumber** - The unique reference number given to a paper-manufacturing slot on the mill production line (for example, paper machine or sheet cutter). Paper for several orders is manufactured in one run before resetting the machines for new manufacturing results.
- **SchoolGrade** – Grade level indicator of the book product, specific to educational text books such as grade 3. (K=Kindergarten, 1 through 12, CO=College)
- **SchoolGradeLevel** – Further definition of the Grade level of the book product, specific to educational text books such as grade 3 level A.
- **ShippingInstructionsLineItemNumber** – Line number reference of the shipping instruction for book shipments.
- **ShippingInstructionsNumber** – Sequential message number of the shipping instruction.
- **SpecificationReferenceNumber** – Buyer’s version number of the book specification.
- **StockOrderNumber** - The unique reference number given to an order, which is to be delivered to the buyer’s designated stock location (typically a paper merchant). The reference value is passed from the buyer to the supplier and the information content is meaningful only to the buyer.
- **SupplierCallOffNumber** – A number assigned by the supplier to the call-off created by the customer.
- **SupplierClaimNumber** – The number assigned by the supplier to identify a claim.
- **SupplierReferenceNumber** - The unique reference number created by the seller in response to a purchase order. This number, sent in the seller’s order confirmation message, can correspond to all or part of a mill order number versus a run number.
- **SupplierVoyageNumber** - The unique seller’s reference number (own internal code) given to a voyage, not the port authority’s number.
- **Title** – Proper title of a book product.
- **TitleAlias** – Buyer supplied title description for book products, usually used for security purposes.
- **ToPurchaseOrderNumber** – The destination of purchase order information.
- **UniversalProductIdentifier** – Unique identifier for the book, component of a book product, and many other products.
- **UsageNumber** – The number used to identify the Usage activity being referred to.

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

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- **VendorReferenceNumber** – A unique number created by the Vendor for the information.
- **WarehouseDeliveryNumber** – Alternate delivery number when the warehouse uses secondary documents to manage despatch, e.g. Third Party managed warehouse with their own system.

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### Reissued

Reissued is an optional attribute that indicates whether the document is an original or a copy. When this attribute is omitted the document is not a copy – it is an original. This is because No is the default.

#### Used in:

- CallOff
- Complaint
- ComplaintResponse
- CreditDebitNote
- DeliveryMessage
- DeliveryMessageBook
- GoodsReceipt
- InventoryChange
- InventoryStatus
- Invoice
- OrderConfirmation
- ProductPerformance
- PurchaseOrder
- ShippingInstructions
- Usage

#### Choices:

- **Yes** – The document has been reissued.
- **No** – The document is the original.

---

### ShipmentComplete

Indicates that all shipments for the particular Purchase Order, Line Item, and Product are complete.

#### Used in:

- DeliveryMessageLineItem

#### Choices:

- No (default)
- Yes

---

### statusType

Acts as a flag indicating what processing may be required.

- **Accepted** - Either the seller or the buyer accepts the header information.
- **Amended** - Either the seller or the buyer has changed the header information.

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

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- **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.
- **Counterproposal** - The sender is presenting a different proposal.
- **New** – This is the first time the message has been sent.
- **NoAction** – This call-off header has not been amended and thereby requires no action.
- **Original** - The message information is the first version of that information.
- **Pending** - The seller will update the call-off line item at a later time.
- **Rejected** - The header information is rejected.
- **Replaced** - The entire message referred to has been replaced and the receiver should revalidate the information in their system based upon the entire message contents received.

### Additional Information for Delivery Message

#### Using the PackageInformation element

The purpose of the PackageInformation structure is to clearly identify physical handling items that constitute the delivery. The types of packages currently supported by the Delivery message are:

- Box
- Pallet
- PulpUnit
- Reel
- Vehicle

Each package, or handling unit, may be composed of further packages or items, for example, PulpUnit(s)<sup>1</sup> are composed of Bales; Multi-reel packages are composed of Reels; a Pallet may be composed of Boxes and Reels. This relationship is supported by the PackageInformation structure.

Note that uses of further levels in the PackageInformation structure (BaleItem, BoxItem, ReelItem, ReamItem, and SheetItem) are only required if:

- the components of the package themselves carry identifiers and this information is required for updating inventory systems
- detailed characteristics of the item must also be sent in the message (For example, DeliveryMessageReelCharacteristics)

The following examples are provided to illustrate usage.

Twenty single reel packages with no detail characteristics required

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<sup>1</sup> PulpUnit(s) are indicated as PackageInformation@PackageType = PulpUnit

# DeliveryMessage Documentation - papiNet Standard - Version 2.10

---

```
<DeliveryMessageLineItem>
  .....line item elements.....
  <NumberOfPackages>20</NumberOfPackages>
  .....quantities.....
  <PackageInformation PackageType="Reel">
    <Identifier IdentifierCodeType="Supplier" IdentifierType="Barcode" >XYZ12345</Identifier>
    <ItemCount><Value UOM="Reel">1</Value></ItemCount>
    <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
      <Value UOM="Kilogram" >1177</Value>
    </Quantity>
  </PackageInformation>
  <PackageInformation PackageType="Reel">
    <Identifier IdentifierCodeType="Supplier" IdentifierType="Barcode" >ABC98765</Identifier>
    <ItemCount>><Value UOM="Reel">1</Value></ItemCount>
    <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
      <Value UOM="Kilogram" >1172</Value>
    </Quantity>
  </PackageInformation>
  ....and so on for the other packages.....
</DeliveryMessageLineItem>
```

## Twenty single reel packages with DeliveryMessageReelCharacteristics

```
.<DeliveryMessageLineItem>
  .....line item elements.....
  <NumberOfPackages>20</NumberOfPackages>
  .....quantities.....
  <PackageInformation PackageType="Reel">
    <Identifier IdentifierCodeType="Supplier" IdentifierType="Barcode" >XYZ12345</Identifier>
    <ItemCount>
      <Value UOM="Reel">1</Value>
    </ItemCount>
    <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
      <Value UOM="Kilogram" >1177</Value>
    </Quantity>
    <ReelItem>
      <Identifier IdentifierCodeType="Supplier" IdentifierType="Barcode" >XYZ12345</Identifier>
      <Identifier IdentifierCodeType="Supplier" IdentifierType="Primary" >XYZ12345</Identifier>
      <DeliveryMessageReelCharacteristics>
        <ReelLength>
          <Value UOM="Meter">15600</Value>
        </ReelLength>
      </DeliveryMessageReelCharacteristics>
    <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
      <Value UOM="Kilogram" >1177</Value>
```

# DeliveryMessage Documentation - papiNet Standard - Version 2.10

---

```
        </Quantity>
    </ReelItem>
</PackageInformation>
<PackageInformation PackageType="Reel">
    <Identifier IdentifierCodeType="Supplier" IdentifierType="Barcode" >ABC98765</Identifier>
    <ItemCount>
        <Value UOM="Reel">1</Value>
    </ItemCount>
    <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
        <Value UOM="Kilogram" >1172</Value>
    </Quantity>
    <ReelItem>
        <Identifier IdentifierCodeType="Supplier" IdentifierType="Barcode" >ABC98765</Identifier>
        <Identifier IdentifierCodeType="Supplier" IdentifierType="Primary" >ABC98765</Identifier>
        <DeliveryMessageReelCharacteristics>
            <ReelLength>
                <Value UOM="Meter">15588</Value>
            </ReelLength>
        </DeliveryMessageReelCharacteristics>
        <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
            <Value UOM="Kilogram" >1172</Value>
        </Quantity>
    </ReelItem>
</PackageInformation>
....and so on for the other packages.....
</DeliveryMessageLineItem>
```

Twenty Multi-reel packages containing two reels each, no detail characteristics required.

```
<DeliveryMessageLineItem>
.....line item elements.....
<NumberOfPackages>20</NumberOfPackages>
.....quantities.....
<PackageInformation PackageType="Reel">
    <Identifier IdentifierCodeType="Supplier" IdentifierType="Barcode" >XYZ12345</Identifier>
    <ItemCount>
        <Value UOM="Reel">2</Value>
    </ItemCount>
    <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
        <Value UOM="Kilogram" >1177</Value>
    </Quantity>
    <ReelItem>
        <Identifier IdentifierCodeType="Supplier" IdentifierType="Primary" >XYZ12345</Identifier>
        <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
```

# DeliveryMessage Documentation - papiNet Standard - Version 2.10

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```
        <Value UOM="Kilogram" >588</Value>
      </Quantity>
    </ReelItem>
  <ReelItem>
    <Identifier IdentifierCodeType="Supplier" IdentifierType="Primary" >XYZ12348</Identifier>
    <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
      <Value UOM="Kilogram" >589</Value>
    </Quantity>
  </ReelItem>
</PackageInformation>
<PackageInformation PackageType="Reel">
  <Identifier IdentifierCodeType="Supplier" IdentifierType="Barcode" >ABC98765</Identifier>
  <ItemCount>
    <Value UOM="Reel">2</Value>
  </ItemCount>
  <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
    <Value UOM="Kilogram" >1172</Value>
  </Quantity>
  <ReelItem>
    <Identifier IdentifierCodeType="Supplier" IdentifierType="Primary" >ABC98765</Identifier>
    <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
      <Value UOM="Kilogram" >586</Value>
    </Quantity>
  </ReelItem>
  <ReelItem>
    <Identifier IdentifierCodeType="Supplier" IdentifierType="Primary" >ABD45362</Identifier>
    <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
      <Value UOM="Kilogram" >586</Value>
    </Quantity>
  </ReelItem>
</PackageInformation>
....and so on for the other packages.....
</DeliveryMessageLineItem>
```

Ten PulpUnit(s) consisting of 6 bales, but with no bale information required.

```
<DeliveryMessageLineItem>
  .....line item elements.....
  <NumberOfPackages>10</NumberOfPackages>
  .....quantities.....
  <PackageInformation PackageType="PulpUnit">
    <Identifier IdentifierCodeType="Supplier" IdentifierType="Barcode" >XYZ12345</Identifier>
    <ItemCount>
      <Value UOM="Bale">6</Value>
    </ItemCount>
```

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

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```
<Quantity QuantityType="AirDryMetricTonne" QuantityTypeContext="Delivered">
  <Value UOM="Kilogram" >3050</Value>
</Quantity>
</PackageInformation>
<PackageInformation PackageType="PulpUnit">
  <Identifier IdentifierCodeType="Supplier" IdentifierType="Barcode" >ABC98765</Identifier>
  <ItemCount>
    <Value UOM="Bale">6</Value>
  </ItemCount>
  <Quantity QuantityType="AirDryMetricTonne" QuantityTypeContext="Delivered">
    <Value UOM="Kilogram" >3047</Value>
  </Quantity>
</PackageInformation>
....and so on for the other packages.....
</DeliveryMessageLineItem>
```

This example is for a single pallet consisting of 10 boxes. Pallet is stretch wrapped and has its own identifier.

```
<DeliveryMessageLineItem>
.....line item elements.....
<NumberOfPackages>1</NumberOfPackages>
.....quantities.....
<PackageInformation PackageType="Pallet">
  <Identifier IdentifierCodeType="Supplier" IdentifierType="Barcode" >P12345</Identifier>
  <ItemCount>
    <Value UOM="Box">10</Value>
  </ItemCount>
  <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
    <Value UOM="Kilogram" >230</Value>
  </Quantity>
  <BoxItem>
    <Identifier IdentifierCodeType="Supplier" IdentifierType="Primary" >ABC98765</Identifier>
    <ItemCount>
      <Value UOM="Ream">10</Value>
    </ItemCount>
    <!-- is the number of Reams in the Box-->
    <Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">
      <Value UOM="Kilogram" >23</Value>
    </Quantity>
  </BoxItem>
  <BoxItem>
    <Identifier IdentifierCodeType="Supplier" IdentifierType="Primary" >ABC98766</Identifier>
    <ItemCount>
      <Value UOM="Ream">10</Value>
```

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

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```
</ItemCount>  
<Quantity QuantityType="GrossWeight" QuantityTypeContext="Delivered">  
  <Value UOM="Kilogram" >23</Value>  
</Quantity>  
</BoxItem>  
.....and so of for the other 8 Boxes.....  
</PackageInformation>  
</DeliveryMessageLineItem>
```

# DeliveryMessage Documentation - papiNet Standard - Version 2.10

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## Business Use Cases

A complete Case Study is available at [www.papiNet.org](http://www.papiNet.org). This includes the Delivery Messages sent as deliveries are made to a terminal and as deliveries are made to a final Ship-To location. This should be used to get familiar with how XML is mapped from existing documents and where XML documents fit in the processing flow. It addresses only the examples of Sheets delivered on Pallets and Reels delivered without packaging. Additional Business Scenarios are given which contain common business examples and guidelines to formatting the XML.

### Listing of Business Use Cases

|                                   |   |
|-----------------------------------|---|
| <a href="#"><u>Scenario A</u></a> | A DeliveryMessage is sent that specifies reels packed on pallets.   |
| <a href="#"><u>Scenario B</u></a> | A DeliveryMessage is sent that specifies reels packed in multi-reels.   |
| <a href="#"><u>Scenario C</u></a> | A DeliveryMessage is sent that contains sheets packed in reams.   |
| <a href="#"><u>Scenario D</u></a> | A DeliveryMessage is sent that details sheets packed in reams which are packed in boxes.                                    |
| <a href="#"><u>Scenario E</u></a> | A DeliveryMessage is sent that specifies multiple delivery legs.  |
| <a href="#"><u>Scenario F</u></a> | A DeliveryMessage is sent that specifies a mixed product pallet that combines reels and reams of sheets on the same pallet. |
| <a href="#"><u>Scenario G</u></a> | A DeliveryMessage of type "InitialShipmentAdvice" is sent to the Buyer that does not include delivery items.                |
| <a href="#"><u>Scenario H</u></a> | A DeliveryMessage is sent that corrects an erroneous DeliveryMessage.   |
| <a href="#"><u>Use Case I</u></a> | A DeliveryMessage is sent that cancels an erroneous DeliveryMessage..   |

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

### Scenario A

|                          |   |
|--------------------------|---|
| <b>Message</b>           | Delivery Message  |
| <b>Type</b>              | "DeliveryMessage"   |
| <b>Business Scenario</b> | <p>A DeliveryMessage is sent that specifies reels packed on pallets.</p> <pre> sequenceDiagram     participant BuyerParty as : BuyerParty     participant SupplierParty as : SupplierParty     SupplierParty-&gt;&gt;BuyerParty: Receive DeliveryMessage()     BuyerParty--&gt;&gt;SupplierParty: BusinessAcknowledgement     </pre>  |
| <b>Outcome</b>           | Delivery is recorded as shipped in the Buyer's system   |
| <b>Initiator</b>         | Supplier  |
| <b>Receiver</b>          | Buyer   |
| <b>Trigger</b>           | Goods are ready for Delivery  |
| <b>Step 1</b>            | <p>Supplier sends a Delivery Message that corresponds to one PurchaseOrderInformation, PurchaseOrderLineItemNumber combination. Each PackageInformation specifies the Pallets that are sent and the Reels that are contained in each Pallet.</p> <ul style="list-style-type: none"> <li>• Pallet is the highest packing level in the Use Case so the PackageInformation@PackageType is "Pallet". PackageInformation can occur multiple times.</li> <li>• The MixedProductPalletIndicator on Pallet is set to "No" because only Reels from one order are on this Pallet</li> <li>• Identifier is used to distinguish the Pallet</li> <li>• ItemCount is the count of the number of Reels on this Pallet</li> <li>• Quantity contains the GrossWeight which is the full weight of the Pallet, Wrapping and Reels</li> <li>• InformationalQuantity specifies an AdjustmentType which details the weight of any Wrapping or Core</li> <li>• InformationalQuantity with QuantityType="NetWeight" specifies the usable Reel paper on the pallet</li> <li>• PackageInformation contains one or more ReelItem(s).</li> </ul> <p>A ReelItem details each Reel:</p> <ul style="list-style-type: none"> <li>• Identifier is the Identifier used to distinguish the Reel</li> <li>• Quantity contains the GrossWeight which is the full weight of the Reel including Wrapping and Core</li> <li>• InformationalQuantity specifies an AdjustmentType which details the weight of any Wrapping or Core</li> <li>• InformationalQuantity with QuantityType="NetWeight" specify the usable paper on the Reel</li> </ul> |

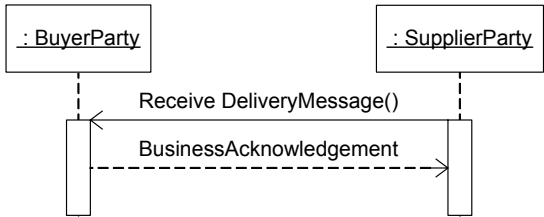
## DeliveryMessage Documentation - papiNet Standard - Version 2.10

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|  |   |
|--|---|
|  | <p>Statuses sent within the message:</p> <ul style="list-style-type: none"><li>• DeliveryMessageStatusType = "Original"</li></ul> |
|--|---|

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

### Scenario B

|                          |  |
|--------------------------|--|
| <b>Message</b>           | Delivery Message   |
| <b>Type</b>              | "DeliveryMessage"  |
| <b>Business Scenario</b> | <p>A DeliveryMessage is sent that specifies reels packed in multi-reels.</p>  <pre> sequenceDiagram     participant Buyer as : BuyerParty     participant Supplier as : SupplierParty     Supplier-&gt;&gt;Buyer: Receive DeliveryMessage()     Buyer--&gt;&gt;Supplier: BusinessAcknowledgement     </pre>  |
| <b>Outcome</b>           | Delivery is recorded as shipped in the Buyer's system  |
| <b>Initiator</b>         | Supplier   |
| <b>Receiver</b>          | Buyer  |
| <b>Trigger</b>           | Goods are ready for Delivery   |
| <b>Step 1</b>            | <p>Supplier sends a Delivery Message that corresponds to one PurchaseOrderInformation, PurchaseOrderLineItemNumber combination. Each PackageInformation occurrence specifies the multi-reel packages that are sent and the Reels that are contained in each multi-reel.</p> <ul style="list-style-type: none"> <li>• Reel is the highest packing level in the Use Case so the initial PackageInformation@PackageType is "Reel". PackageInformation can occur multiple times.</li> <li>• Identifier is used to distinguish the multi-reel package</li> <li>• ItemCount is the count of the number of Reels packed in the multi-reel. (NOTE: this is what distinguishes a reel package from a multi-reel package.)</li> <li>• Quantity contains the GrossWeight which is the full weight of the multi-reel including packaging, Wrapping and Reels</li> <li>• InformationalQuantity specifies an AdjustmentType which details the weight of any Wrapping or Core</li> <li>• InformationalQuantity with QuantityType="NetWeight" specify the usable paper in the multi-reel package</li> <li>• PackageInformation contains two or more ReelItem(s)</li> </ul> <p>A ReelItem details each Reel:</p> <ul style="list-style-type: none"> <li>• Identifier is the Identifier used to distinguish the Reel</li> <li>• Quantity contains the GrossWeight which is the full weight of the Reel including Wrapping and Core</li> <li>• InformationalQuantity specifies an AdjustmentType which details the weight of any Wrapping or Core</li> <li>• InformationalQuantity with QuantityType="NetWeight"</li> </ul> |

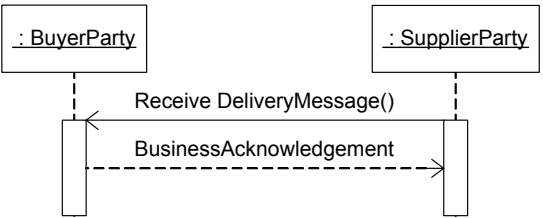
## DeliveryMessage Documentation - papiNet Standard - Version 2.10

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|  |  |
|--|--|
|  | specify the usable paper on the Reel   |
|  | Statuses sent within the message: <ul style="list-style-type: none"><li>• DeliveryMessageStatusType = "Original"</li></ul> |

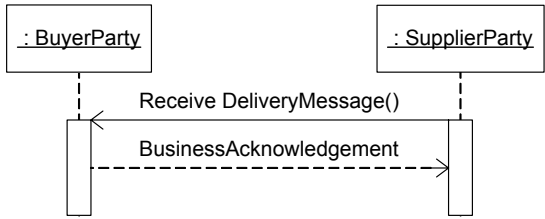
## DeliveryMessage Documentation - papiNet Standard - Version 2.10

### Scenario C

|                          |   |
|--------------------------|---|
| <b>Message</b>           | Delivery Message  |
| <b>Type</b>              | "DeliveryMessage"   |
| <b>Business Scenario</b> | <p>A DeliveryMessage is sent that contains sheets packed in reams</p>  <pre> sequenceDiagram     participant Buyer as : BuyerParty     participant Supplier as : SupplierParty     Supplier-&gt;&gt;Buyer: Receive DeliveryMessage()     Buyer--&gt;&gt;Supplier: BusinessAcknowledgement     </pre>  |
| <b>Outcome</b>           | Delivery is recorded as shipped in the Buyer's system   |
| <b>Initiator</b>         | Supplier  |
| <b>Receiver</b>          | Buyer   |
| <b>Preconditions</b>     | Goods are ready for Delivery  |
| <b>Step 1</b>            | <p>Supplier sends a Delivery Message that corresponds to one PurchaseOrderInformation, PurchaseOrderLineNumber combination. Each PackageInformation specifies the Reams that are sent and optionally may contain SheetItem information.</p> <ul style="list-style-type: none"> <li>• Ream is the highest packing level in the Use Case so the PackageInformation@PackageType is "Ream". PackageInformation can occur multiple times.</li> <li>• Identifier is the Identifier used to distinguish the Ream</li> <li>• ItemCount is the count of the number of Sheets packed in the Ream</li> <li>• Quantity contains the GrossWeight which is the full weight of the ream including Wrapping</li> <li>• InformationalQuantity specifies an AdjustmentType which details the weight of any Wrapping</li> <li>• InformationalQuantity with QuantityType="NetWeight" specify the usable sheet paper in the Ream</li> <li>• A SheetItem is optional. It details DateSheeted and DateFinished if required.</li> <li>• A SheetItem does NOT have an Identifier.</li> </ul> |
|                          | <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> <li>• DeliveryMessageStatusType = "Original"</li> </ul>   |

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

### Scenario D

|                          |  |
|--------------------------|--|
| <b>Message</b>           | Delivery Message   |
| <b>Type</b>              | "DeliveryMessage"  |
| <b>Business Scenario</b> | <p>A DeliveryMessage is sent that details sheets packed in reams which are packed in boxes.</p>  <pre> sequenceDiagram     participant Buyer as : BuyerParty     participant Supplier as : SupplierParty     Supplier-&gt;&gt;Buyer: Receive DeliveryMessage()     Buyer--&gt;&gt;Supplier: BusinessAcknowledgement     </pre>   |
| <b>Outcome</b>           | Delivery is recorded as shipped in the Buyer's system  |
| <b>Initiator</b>         | Supplier   |
| <b>Receiver</b>          | Buyer  |
| <b>Preconditions</b>     | Goods are ready for Delivery   |
| <b>Step 1</b>            | <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"> <li>• Box is the highest packing level in the Use Case so the PackageInformation@PackageType is Box. PackageInformation can occur multiple times.</li> <li>• Identifier is the Identifier used to distinguish the Box</li> <li>• ItemCount is the count of the number of Reams packed in the Box</li> <li>• Quantity contains the GrossWeight which is the full weight of the Box including packaging</li> <li>• InformationalQuantity specifies an AdjustmentType which details the weight of any packaging</li> <li>• InformationalQuantity with QuantityType="NetWeight" specifies the weight of the Reams in the box, i.e. the Box GrossWeight, less wrapping and packaging.</li> </ul> |
|                          | <p>Ream is the next highest packing level in the Use Case. Ream is an optional element selected within PackageInformation. Ream can occur multiple times.</p> <ul style="list-style-type: none"> <li>• Identifier is the Identifier used to distinguish the Ream</li> <li>• ItemCount is the count of the number of sheets in the Ream</li> <li>• Quantity contains the GrossWeight which is the full</li> </ul>   |

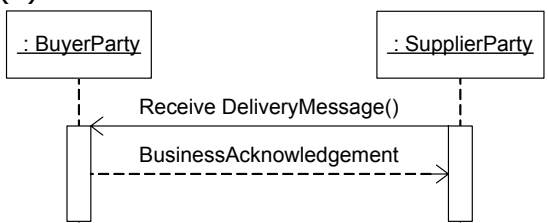
## DeliveryMessage Documentation - papiNet Standard - Version 2.10

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|  |  |
|--|--|
|  | <p>weight of the ream including Wrapping</p> <ul style="list-style-type: none"><li>• InformationalQuantity specifies an AdjustmentType which details the weight of any Wrapping</li><li>• InformationalQuantity with QuantityType="NetWeight" specify the usable sheet paper in the Ream</li></ul> |
|  | <p>A SheetItem is optional. It details DateSheeted and DateFinished.</p> <ul style="list-style-type: none"><li>• A SheetItem does NOT have an Identifier.</li></ul>  |
|  | <p>Statuses sent within the message:</p> <ul style="list-style-type: none"><li>• DeliveryMessageStatusType = "Original"</li></ul>  |

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

### Scenario E

|                          |   |
|--------------------------|---|
| <b>Message</b>           | Delivery Message  |
| <b>Type</b>              | "DeliveryMessage"   |
| <b>Business Scenario</b> | <p>A DeliveryMessage is sent that specifies multiple DeliveryLeg(s).</p>  <pre> sequenceDiagram     participant Buyer as : BuyerParty     participant Supplier as : SupplierParty     Supplier-&gt;&gt;Buyer: Receive DeliveryMessage()     Buyer--&gt;&gt;Supplier: BusinessAcknowledgement     </pre>   |
| <b>Outcome</b>           | Delivery is recorded as shipped in the Buyer's system   |
| <b>Initiator</b>         | Supplier  |
| <b>Receiver</b>          | Buyer   |
| <b>Preconditions</b>     | Goods are ready for Delivery  |
| <b>Step 1</b>            | <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"> <li>• DeliveryLegSequenceNumber which increments starting at 1</li> <li>• DeliveryOrigin includes LocationParty which specifies "CustomerFacility", "Mill", "Port", "Terminal" or "Warehouse"</li> <li>• DeliveryOrigin Date and Name are projected</li> <li>• For each DeliveryLeg, optional Transportation can be specified.</li> <li>• TransportModeCharacteristics includes the attribute TransportModeType (e.g. "Rail")</li> <li>• TransportVehicleCharacteristics includes the attribute TransportVehicleType (e.g. "TruckTrailer")</li> <li>• TransportUnitCharacteristics includes the attribute TransportUnitType (e.g. "TrailerID")</li> <li>• TransportUnitCharacteristics includes the TransportUnitIdentifier (e.g. ID of the Trailer)</li> <li>• TransportLoadingCharacteristics and TransportOtherInstructions further describe the Transportation</li> <li>• DeliveryTransitTime optionally projects the Days, Hours, and Minutes between Origin and Destination</li> <li>• DeliveryDestination includes LocationParty which specifies "CustomerFacility", "Mill", "Port", "Terminal"</li> </ul> |

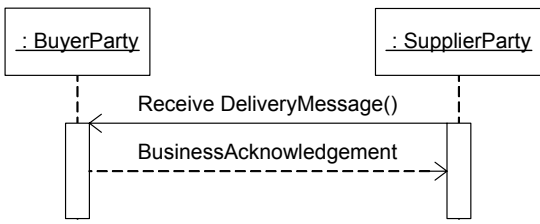
## DeliveryMessage Documentation - papiNet Standard - Version 2.10

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|  |  |
|--|--|
|  | or "Warehouse" <ul style="list-style-type: none"><li>• DeliveryDestination Date and Name are projected</li></ul>           |
|  | Statuses sent within the message: <ul style="list-style-type: none"><li>• DeliveryMessageStatusType = "Original"</li></ul> |

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

### Scenario F

|  |   |
|--|---|
| <b>Message</b>                                   | Delivery Message  |
| <b>Message Type</b>                              | "DeliveryMessage"   |
| <b>Business Scenario</b>                         | <p>A DeliveryMessage is sent that specifies a mixed product pallet that combines reels and reams of sheets on the same pallet.</p>  <pre> sequenceDiagram     participant BuyerParty as : BuyerParty     participant SupplierParty as : SupplierParty     SupplierParty-&gt;&gt;BuyerParty: Receive DeliveryMessage()     BuyerParty--&gt;&gt;SupplierParty: BusinessAcknowledgement     </pre>   |
| <b>Outcome</b>                                   | Delivery is recorded as shipped in the Buyer's system   |
| <b>Initiator</b>                                 | Supplier  |
| <b>Receiver</b>                                  | Buyer   |
| <b>Preconditions</b>                             | Goods are ready for Delivery  |
| <b>Step 1</b>                                    | Supplier sends a Delivery Message that corresponds to two different PurchaseOrderInformation, PurchaseOrderLineItemNumber combinations with a request to send both order line items via the same Pallet, Pallet A. Both DeliveryMessageLineItemDetail specify the same pallet and mark it with MixedProductPalletIndicator of "Yes".  |
| <b>Step 2; Pallet A Includes Reams of Sheets</b> | <p>Pallet is the highest packing level in Part 1 of this Use Case so PackageInformation@PackageType is "Pallet". Pallet can occur multiple times.</p> <ul style="list-style-type: none"> <li>• The MixedProductPalletIndicator on PackageInformation is set to "Yes" because Reels and Reams of Sheets are mixed on the Pallet</li> <li>• Identifier is the Identifier used to distinguish the Pallet</li> <li>• ItemCount is the count of the number of Reams on this Pallet</li> <li>• Quantity contains the GrossWeight which is the full weight of the reams on the Pallet including Wrapping</li> <li>• InformationalQuantity specifies an AdjustmentType which details the weight of any pallet Wrapping or packaging</li> <li>• InformationalQuantity with QuantityType="NetWeight" specifies the weight of</li> </ul> |

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

|   |  |
|---|--|
|   | <p>the Reams on the Pallet, i.e. the GrossWeight of the Reams, less any Pallet wrapping and packaging.</p>   |
|   | <p>PackageInformation contains one or more Reams<br/>A Ream details each Ream. Ream can occur multiple times.</p> <ul style="list-style-type: none"> <li>• Identifier is the Identifier used to distinguish the Ream</li> <li>• ItemCount is the count of the number of Sheets packed in the Ream</li> <li>• Quantity contains the GrossWeight which is the full weight of the ream including Wrapping</li> <li>• InformationalQuantity specifies an AdjustmentType which details the weight of any Wrapping</li> <li>• InformationalQuantity with QuantityType="NetWeight" specify the usable sheet paper in the Ream</li> </ul>  |
| <b>Step 3; Pallet A Also Includes Reels</b> | <p>Pallet is the highest packing level in Part II of this Use Case so PackageInformation@PackageType is "Pallet". PackageInformation can occur multiple times.</p> <ul style="list-style-type: none"> <li>• The MixedProductPalletIndicator on PackageInformation is set to "Yes" because Reels and Reams of Sheets are mixed on the Pallet</li> <li>• Identifier is the Identifier used to distinguish the Pallet</li> <li>• ItemCount is the number of Reels on this Pallet</li> <li>• Quantity contains the GrossWeight which is the full weight of the ReelItem(s) on the Pallet including pallet Wrapping and packaging.</li> <li>• InformationalQuantity specifies an AdjustmentType which details the weight of any pallet Wrapping or packaging</li> <li>• InformationalQuantity with QuantityType="NetWeight" specifies the weight of the ReelItem(s) on the Pallet, i.e. the GrossWeight of the ReelItem(s), less any Pallet wrapping and packaging.</li> <li>• PackageInformation contains one or more ReelItem(s)</li> </ul> |
|   | <p>A ReelItem details each Reel:</p> <ul style="list-style-type: none"> <li>• Identifier is the Identifier used to distinguish the Reel</li> <li>• Quantity contains the GrossWeight which is the full weight of the Reel including Wrapping and Core</li> </ul>   |

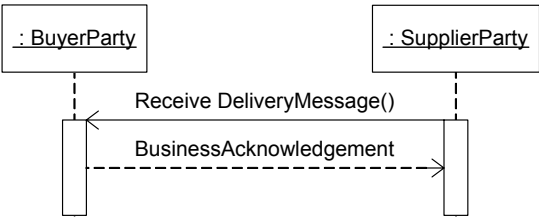
## DeliveryMessage Documentation - papiNet Standard - Version 2.10

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|  |   |
|--|---|
|  | <ul style="list-style-type: none"><li>• InformationalQuantity specifies an AdjustmentType which details the weight of any Wrapping or Core</li><li>• InformationalQuantity with QuantityType="NetWeight" specify the usable paper on the Reel</li></ul> |
|  | Statuses sent within the message: <ul style="list-style-type: none"><li>• DeliveryMessageStatusType = "Original"</li></ul>  |

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

### Scenario G

|                          |   |
|--------------------------|---|
| <b>Message</b>           | Delivery Message  |
| <b>Type</b>              | "DeliveryMessage"   |
| <b>Business Scenario</b> | <p>An "InitialShipmentAdvice" type of a DeliveryMessage is sent to the Buyer that does not include delivery items.</p>  <pre> sequenceDiagram     participant BuyerParty as : BuyerParty     participant SupplierParty as : SupplierParty     SupplierParty-&gt;&gt;BuyerParty: Receive DeliveryMessage()     BuyerParty--&gt;&gt;SupplierParty: BusinessAcknowledgement     </pre> |
| <b>Outcome</b>           | Order availability is recorded in the Buyer's system; not full delivery information   |
| <b>Initiator</b>         | Supplier  |
| <b>Receiver</b>          | Buyer   |
| <b>Preconditions</b>     | Goods are ready for Delivery  |
| <b>Step 1</b>            | <p>Supplier sends a Delivery Message that corresponds to one PurchaseOrderInformation, PurchaseOrderLineItemNumber combination.</p> <ul style="list-style-type: none"> <li>• DeliveryMessageType is set to "InitialShipmentAdvice".</li> <li>• There is no description or Identifiers available on the packaging of the delivery, only that the Order is ready for later Call Off.</li> </ul>   |
|                          | <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> <li>• DeliveryMessageStatusType = "Original"</li> </ul>   |

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

### Scenario H

|                          |   |
|--------------------------|---|
| <b>Message</b>           | Delivery Message  |
| <b>Message Type</b>      | "DeliveryMessage"   |
| <b>Business Scenario</b> | <p>A DeliveryMessage is sent that corrects an erroneous DeliveryMessage.</p> <pre> sequenceDiagram     participant S as : SupplierParty     participant B as : BuyerParty     S-&gt;&gt;B: BusinessAcknowledgement     B--&gt;&gt;S: Receive Amended DeliveryMessage()     S-&gt;&gt;B: BusinessAcknowledgement     </pre>                                    |
| <b>Outcome</b>           | The Original Delivery Information is removed from the Buyer's System and is replaced by the Replacement Delivery Information.   |
| <b>Initiator</b>         | Supplier  |
| <b>Receiver</b>          | Buyer   |
| <b>Preconditions</b>     | Goods were ready for Delivery and an Original DeliveryMessage was sent. The Delivery is in error and should be replaced.  |
| <b>Step 1</b>            | Supplier sends an "Original" Delivery Message that corresponds to one or more PurchaseOrderInformation, PurchaseOrderLineItemNumber combination and includes PackageInformation details.  |
| <b>Step 2</b>            | An error in the original DeliveryMessage is noted.  |
| <b>Step 3</b>            | <p>Supplier replaces the entire DeliveryMessage.</p> <ul style="list-style-type: none"> <li>• DeliveryMessageStatusType is set to "Replaced". The new message contains full replacement information.</li> <li>• In the DeliveryMessageReference, the ReferenceType attribute is set to "OriginalDeliveryNumber". The element contains that number.</li> </ul> |

## DeliveryMessage Documentation - papiNet Standard - Version 2.10

### Scenario I

|                          |  |
|--------------------------|--|
| <b>Message</b>           | Delivery Message   |
| <b>Type</b>              | "DeliveryMessage"  |
| <b>Business Scenario</b> | <p>A DeliveryMessage is sent that cancels an erroneous DeliveryMessage.</p> <pre> sequenceDiagram     participant S as : SupplierParty     participant B as : BuyerParty     S-&gt;&gt;B: BusinessAcknowledgement     B--&gt;&gt;S: Receive Cancelled DeliveryMessage()     S-&gt;&gt;B: BusinessAcknowledgement     </pre>  |
| <b>Outcome</b>           | The Cancelled Delivery Information is removed from the Buyer's systems.  |
| <b>Initiator</b>         | Supplier   |
| <b>Receiver</b>          | Buyer  |
| <b>Preconditions</b>     | Goods were ready for Delivery and an Original DeliveryMessage was sent. The Delivery is in error and should be cancelled.  |
| <b>Step 1</b>            | Supplier sends an "Original" Delivery Message that corresponds to one or more PurchaseOrderInformation, PurchaseOrderLineItemNumber combination and includes PackageInformation details.   |
| <b>Step 2</b>            | An error in the original DeliveryMessage is noted.   |
| <b>Step 3</b>            | <p>Supplier cancels with a Replacement Delivery Message.</p> <ul style="list-style-type: none"> <li>• DeliveryMessageStatusType is set to "Cancelled". The new message contains no replacement information.</li> <li>• In the DeliveryMessageReference, the ReferenceType attribute is set to "OriginalDeliveryNumber". The element contains that number.</li> </ul> |