



# papiNet

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

**InventoryChange Documentation**

**Papinet Standard - Version 2.10**

**April 2003**

# InventoryChange Documentation - papiNet Standard - Version 2.10

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## Message Documentation

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### The Inventory Change Message

#### An Overview of the Inventory Change Message

The purpose of the Inventory Change message is to inform involved parties about changes in the inventory at a specific warehouse location managed by one warehouse operator. The message then allows the receiving party to update these changes to their systems in order to update tracking data for costs, performance, and financial reporting.

The warehouse location can report the change information in different levels of detail that is by warehouse, location, order, package, or item level.

The parties sending and receiving the message can be different. As well as supporting the reporting relationship between a warehouse operator and a supplier the message can also support a printer managing the stock for a publisher.

The types of changes that can be reported through the inventory change message are:

- Damages in the warehouse that causes weight changes through slab off and rewrapping
- Damages or actions in the warehouse that causes downgrading, or total loss of goods
- Physical stock count differences, adjustment of booked value to actual counted value
- Stock and order transfers

Prior to implementing the Inventory Change message it is assumed that the parties involved have already opened a dialogue and a collaborative agreement has been reached. Such an agreement would include frequency of messages, content detail, units of measure, and other areas. Additionally, agreement on when and how to use the message between the parties will have been reached. Based on these agreements a trading partner sends an Inventory Change message to another trading partner on the event basis agreed to.

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## The Scope of Inventory Change Message

The Inventory Change message can include:

- Product specifications, such as product identifier.
- Warehouse/customer locations.
- Product details such as width, diameter, pallet size, etc.'
- Reel Id/Package Id

The Inventory Change message must include:

- InventoryChangeType, indicating the type of change
- ReasonIdentifier, reason or cause for the change
- Quantities, old quantity and new changed quantity
- Order Reference, Purchase Order or Mill Order

## Inventory change Message Types

There are four types of inventory change message covered in this standard:

- Waste
  - ✧ Total loss of quantity and value
- Rewrapping
  - ✧ Change of weight of package or individual item
- Classification
  - ✧ Cannot be delivered to original customer, to old, damaged etc Can be both down and up to different classification.
- Physical stock count
  - ✧ Differences between booked stock and actual, physical stock

## Inventory change Business Rules

### General inventory change Business Rules

The following table lists the business rules that apply to all Inventory Change message types. Rules that apply to a single inventory change message type are described in separate tables.

Reference	Rule
IC001	Each inventory change message is for one type only; Waste, Rewrapping, Classification, Physical stock count.
IC002	Highest message level is order level; Purchase Order or Mill Order.
IC003	Inventory Change message requires a reason code.
IC004	The Inventory Change message can originate from any trading party. The business flow is the same regardless of sender or receiver.
IC005	An amendment to the InventoryChange message is handled through a new message.
IC006	Always the new classification in the message.

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Reference	Rule
IC007	Order transfer is only accepted between the same supplier's product, to a given Purchase order

### **Processing the Inventory Change Message**

Message processing depends on the message type and on the value(s) in status field(s) at the message, header, and line item levels.

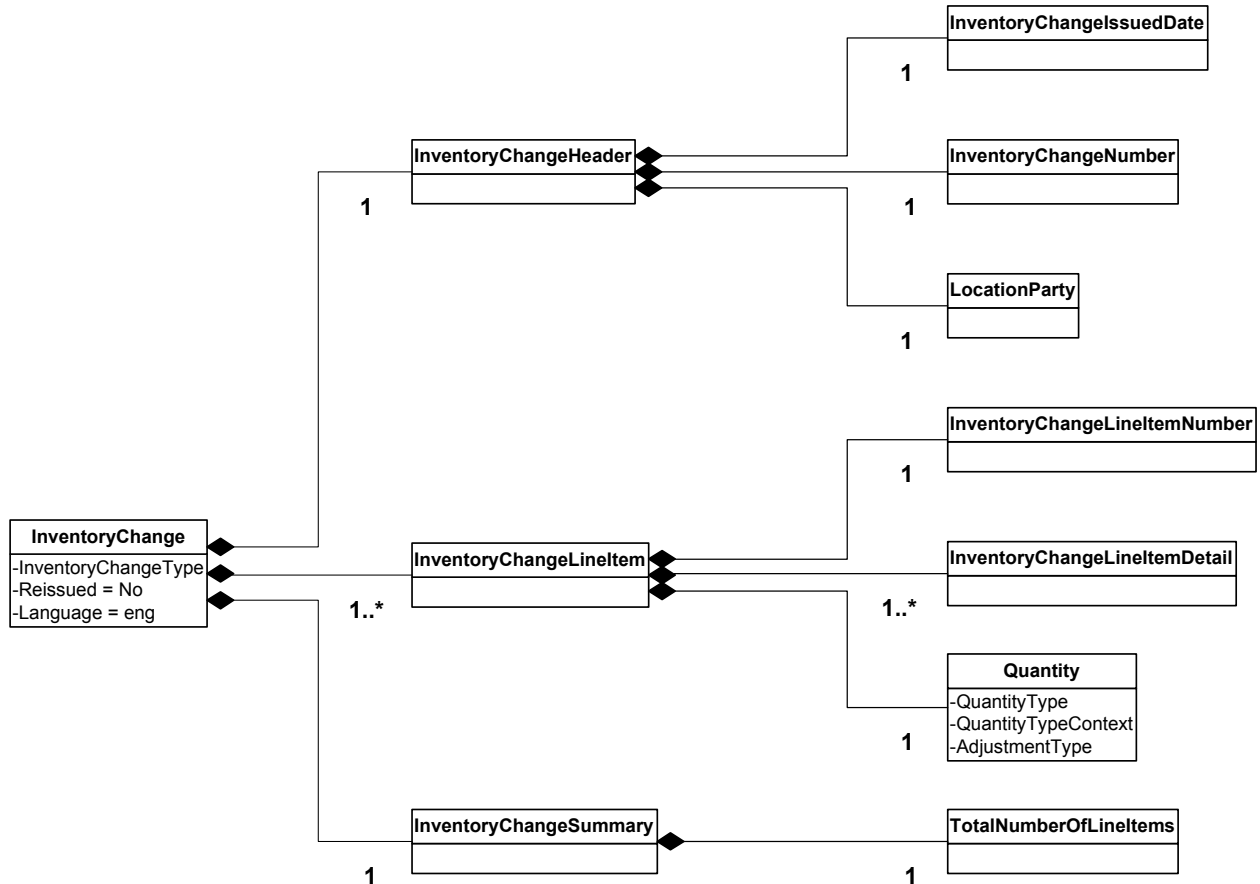
Note: are message statuses required at each level – this hasn't been reviewed yet.

### **Status Values Used When Processing the InventoryChange Message**

No special status values are used to communicate acceptance of the InventoryChange message. This is accomplished using the BusinessAcknowledgement message.

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## High-level UML Diagram of Inventory Change



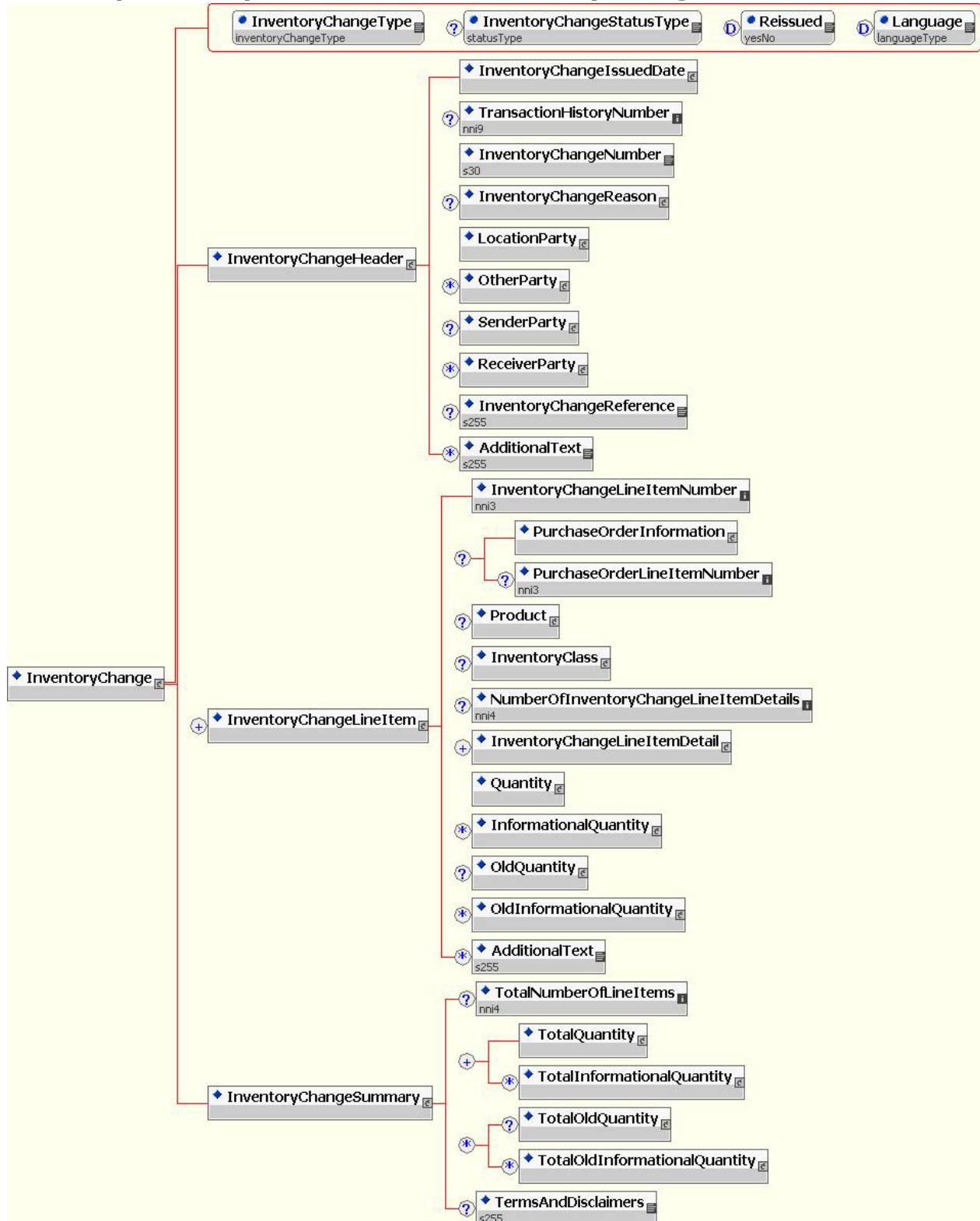
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## Overview of Inventory Change Schema Structure

	<u>Type</u>	<u>Required</u>	<u>Occurrence</u>
InventoryChange	Root		
@InventoryChangeType	Attribute	<b>Required</b>	Single
@Reissued	Attribute	Optional	Single
@Language	Attribute	Optional	Single
InventoryChangeHeader	Element	<b>Required</b>	Single
InventoryChangeIssuedDate	Element	<b>Required</b>	Single
TransactionHistoryNumber	Element	Optional	Single
InventoryChangeNumber	Element	Optional	Single
InventoryChangeReason	Element	<b>Required</b>	Single
LocationParty	Element	<b>Required</b>	Single
OtherParty	Element	Optional	Multiple
SenderParty	Element	<b>Required</b>	Single
ReceiverParty	Element	Optional	Multiple
InventoryChangeReference	Element	Optional	Single
AdditionalText	Element	Optional	Multiple
InventoryChangeLineItem	Element	<b>Required</b>	Multiple
InventoryChangeLineItemNumber	Element	<b>Required</b>	Single
PurchaseOrderInformation	Element	Optional	Single
PurchaseOrderLineItem	Element	Optional	Single
Product	Element	Optional	Single
InventoryClass	Element	<b>Required</b>	Single
NumberOfInventoryChangeLineItemDetails	Element	Optional	Single
InventoryChangeLineItemDetail	Element	<b>Required</b>	Multiple
Quantity	Element	<b>Required</b>	Single
InformationalQuantity	Element	Optional	Multiple
OldQuantity	Element	Optional	Single
OldInformationalQuantity	Element	Optional	Multiple
AdditionalText	Element	Optional	Multiple
InventoryChangeSummary	Element	<b>Required</b>	Single
TotalNumberOfLineItems	Element	Optional	Single
TotalQuantity	Element	<b>Required</b>	Multiple
TotalInformationalQuantity	Element	Optional	Multiple
TotalOldQuantity	Element	Optional	Single
TotalOldInformationalQuantity	Element	Optional	Multiple
TermsAndDisclaimers	Element	Optional	Single

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## Graphical Representation of InventoryChange



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## Inventory Change Schema Structure and Processing Logic

This section provides a detailed graphical view of the InventoryChange Schema structure; the InventoryChange root element, the InventoryChangeHeader, the InventoryChangeLineItem, and the InventoryChangeSummary. Discussions of the subordinates to Invoice 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 InventoryChange 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

### InventoryChange Root



InventoryChange has a required attribute that indicates the type of inventory change being communicated:

- [InventoryChangeType](#)

Inventory Change has a required 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.

- [Reissued](#)

An attribute to communicate the Language

- [Language](#), optional defaults to “eng” (English)

The Inventory Change also contains the following elements:

- [InventoryChangeHeader](#)
- [InventoryChangeLineItem](#)
- [InventoryChangeSummary](#)

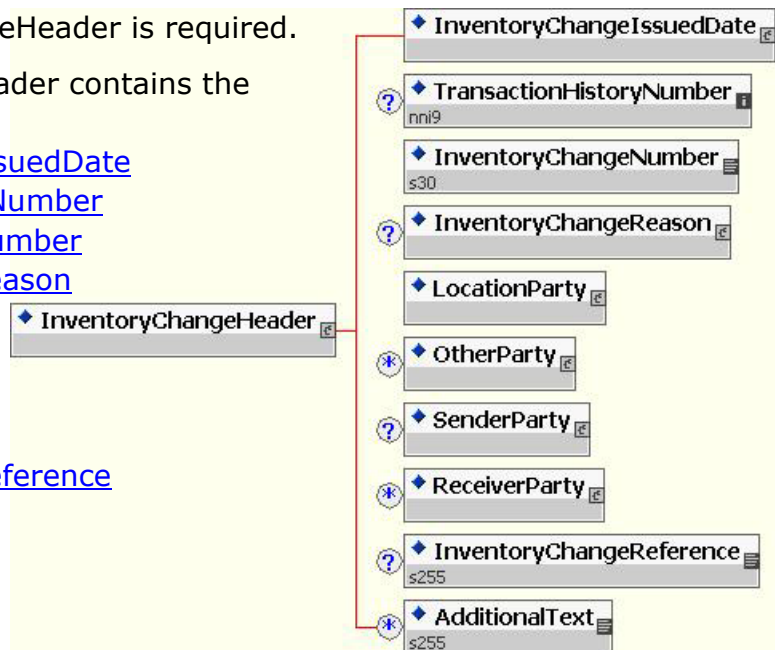
# InventoryChange Documentation - papiNet Standard - Version 2.10

## InventoryChangeHeader

A single InventoryChangeHeader is required.

The InventoryChangeHeader contains the following elements:

- [InventoryChangeIssuedDate](#)
- [TransactionHistoryNumber](#)
- [InventoryChangeNumber](#)
- [InventoryChangeReason](#)
- [LocationParty](#)
- [OtherParty](#)
- [SenderParty](#)
- [ReceiverParty](#)
- [InventoryChangeReference](#)
- [AdditionalText](#)



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## InventoryChangeLineItem

Multiple  
InventoryChangeLineItem instances are allowed; at least one is required.

- [InventoryChange-LineItemNumber](#)
- [PurchaseOrder-Information](#)
- [PurchaseOrderLineItem](#)
- [Product](#)

### InventoryChangeLineItem

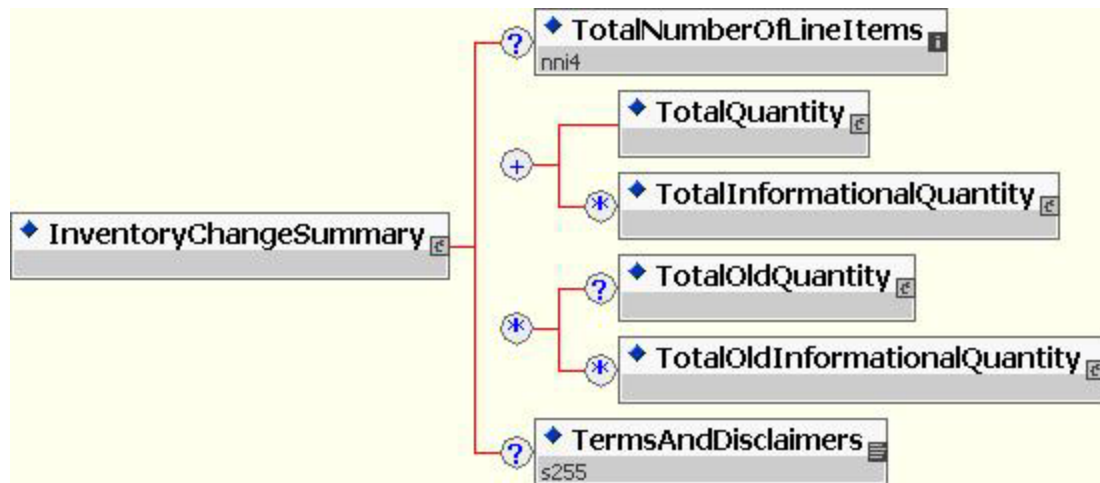
- [InventoryClass](#)
- [NumberOf-InventoryChange-LineItemDetails](#)
- [InventoryChange-LineItemDetail](#)
- [Quantity](#)
- [InformationalQuantity](#)
- [OldQuantity](#)
- [OldInformational-Quantity](#)
- [AdditionalText](#)



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## InventoryChangeSummary



A single InventoryChangeSummary is required.

- [TotalNumberOfLineItems](#)
- [TotalQuantity](#)
- [TotalInformationalQuantity](#)
- [TotalOldQuantity](#)
- [TotalOldInformationalQuantity](#)
- [TermsAndDisclaimers](#)

## Common Definition References - Elements

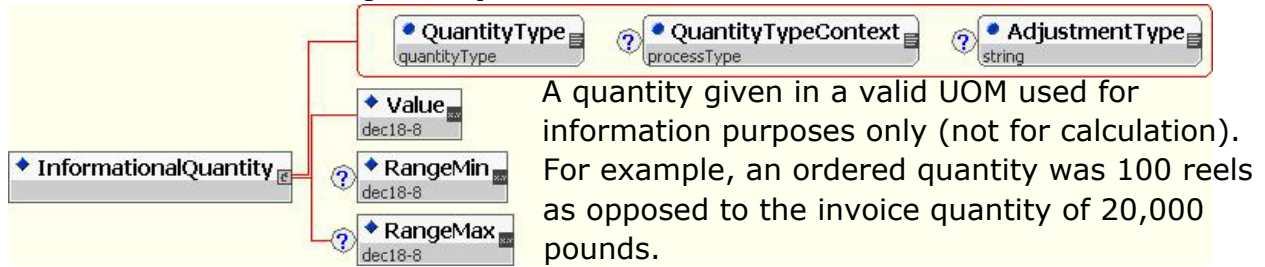
### AdditionalText

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.



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## InformationalQuantity



InformationalQuantity contains the following attributes:

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

And the following elements:

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

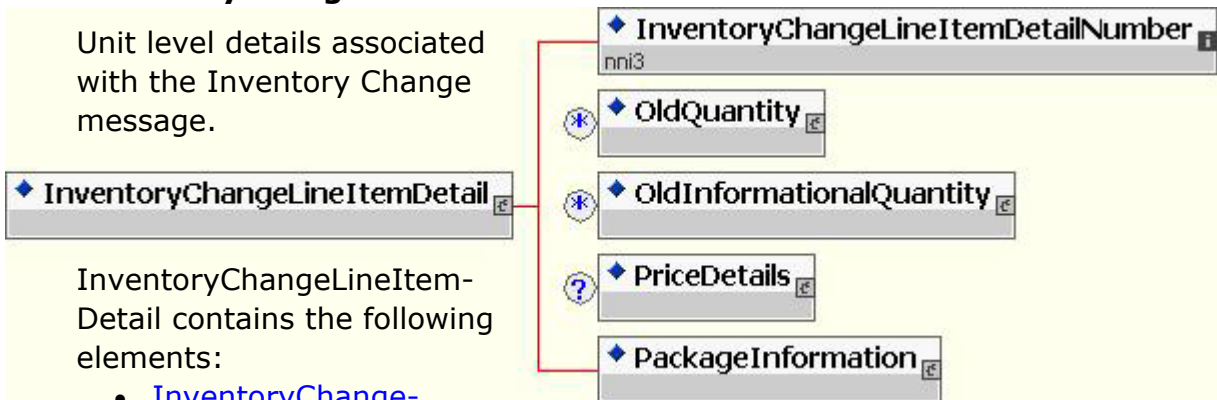
## InventoryChangeIssuedDate

The [Date](#) and optionally [Time](#) when the inventory change was issued.



## InventoryChangeLineItemDetail

Unit level details associated with the Inventory Change message.



InventoryChangeLineItem-  
Detail contains the following  
elements:

- [InventoryChange-  
LineItemDetailNumber](#)
- [OldQuantity](#)
- [OldInformationalQuantity](#)
- [PriceDetails](#)
- [PackageInformation](#)

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## InventoryChangeLineItemNumber

An identifier for the InventoryChangeLineItem.



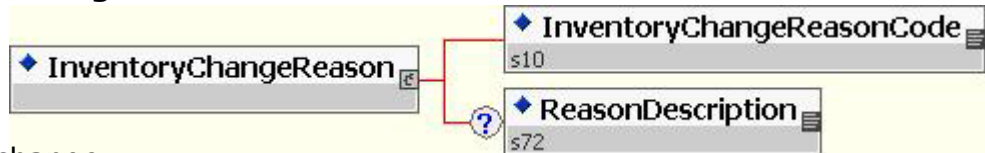
## InventoryChangeNumber

An identifier allowing the line item to be uniquely identified.



## InventoryChangeReason

The reason for the inventory change.



InventoryChangeReason contains the following elements:

- InventoryChangeReasonCode
- ReasonDescription

## InventoryChangeReference



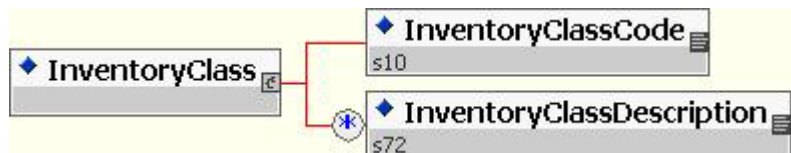
An element detailing relevant references (such as contract number) pertaining to the InventoryChange, identified by [InventoryChangeReferenceType](#).

## InventoryClass

An identification of the inventory item's state of availability.

Contains:

- InventoryClassCode
- InventoryClassDescription



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## LocationParty

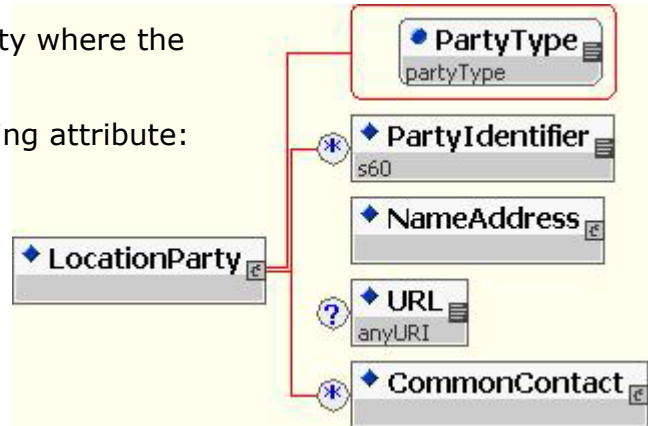
The organization or business entity where the product event take place.

LocationParty contains the following attribute:

- [PartyType](#)

It also contains the following elements:

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



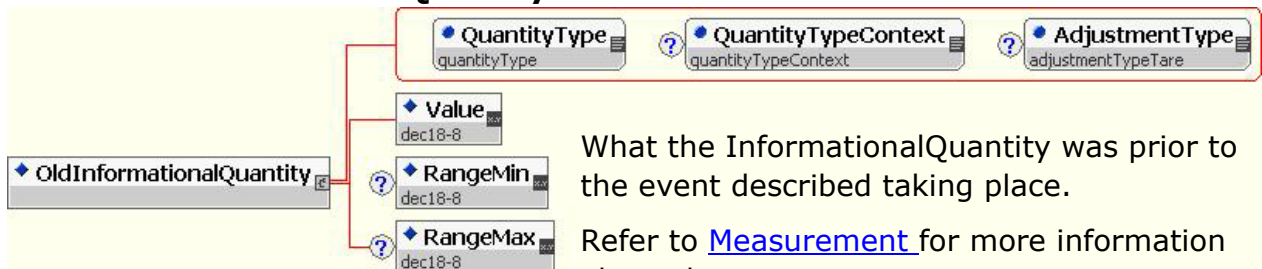
LocationParty is based on the [Party](#) element group.

## NumberOfInventoryChangeLineItemDetails

The number of InventoryChangeLineItemDetail elements included in the message.



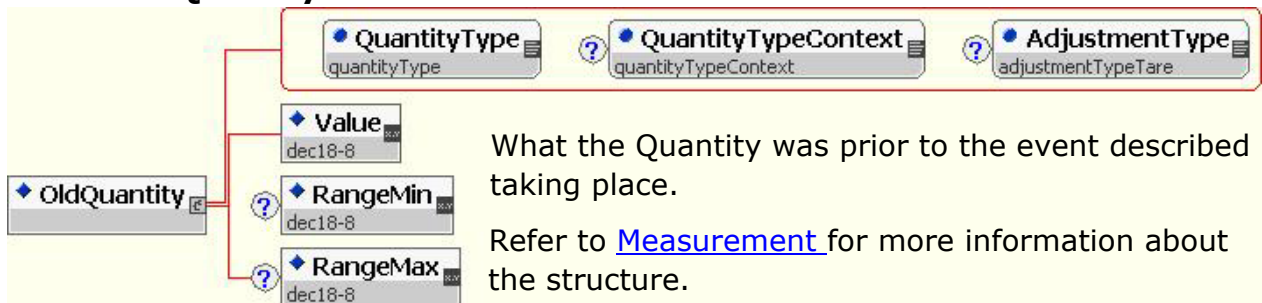
## OldInformationalQuantity



What the InformationalQuantity was prior to the event described taking place.

Refer to [Measurement](#) for more information about the structure.

## OldQuantity



What the Quantity was prior to the event described taking place.

Refer to [Measurement](#) for more information about the structure.

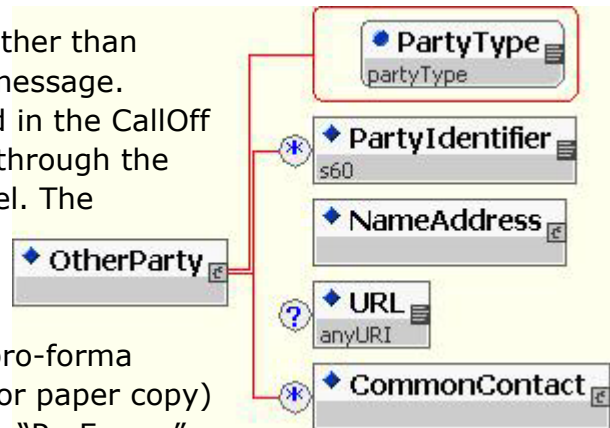
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## OtherParty

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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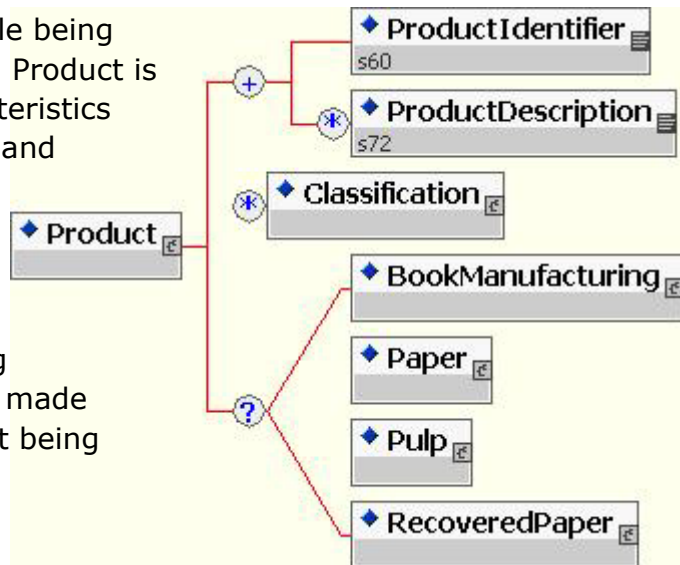
## Product

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.

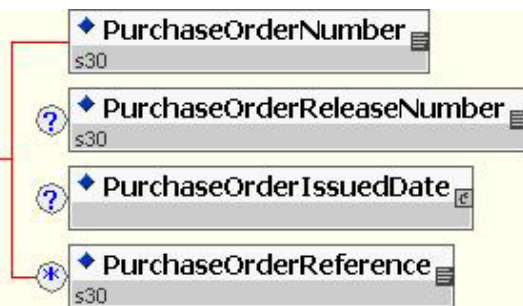
## PurchaseOrderInformation

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



PurchaseOrderInformation has the following elements:

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



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## PurchaseOrderLineItem

PurchaseOrderLineItem is a required, multiple instances element.

PurchaseOrderLineItem has a required attribute:

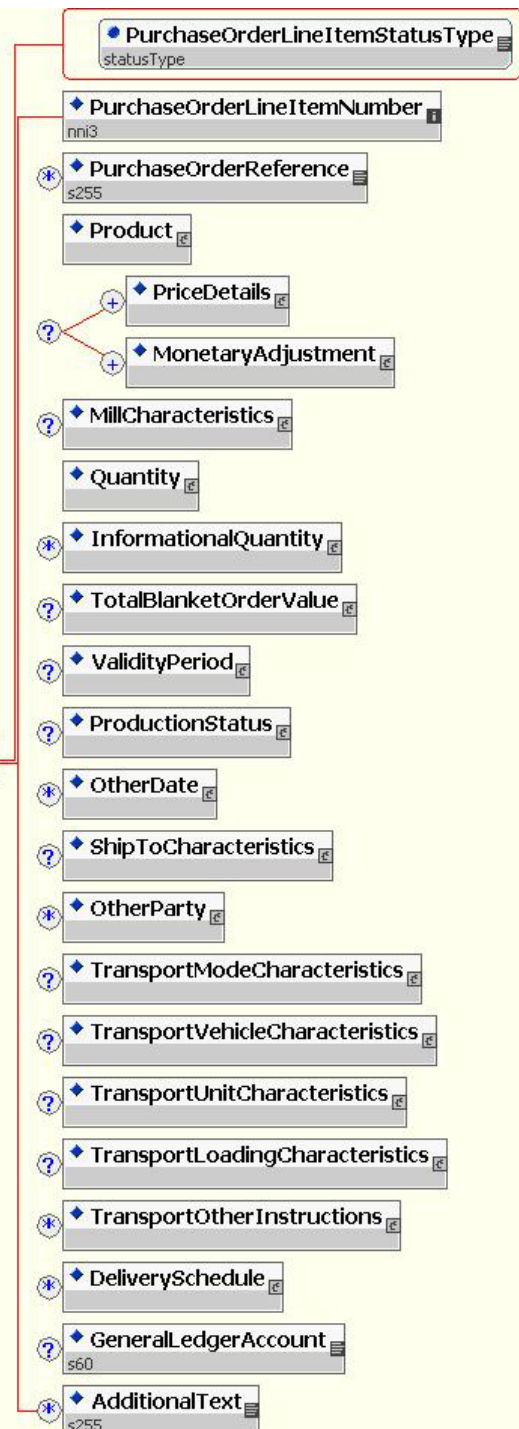
- PurchaseOrderLineItemStatusType
  - ✧ Amended
  - ✧ Cancelled
  - ✧ New
  - ✧ NoAction

PurchaseOrderLineItem has the following elements:

- [PurchaseOrderLineItemNumber](#)
- [PurchaseOrderReference](#)
- [Product](#)
- [PricePerUnit](#)
- [MonetaryAdjustment](#)
- [MillCharacteristics](#)
- [Quantity](#)

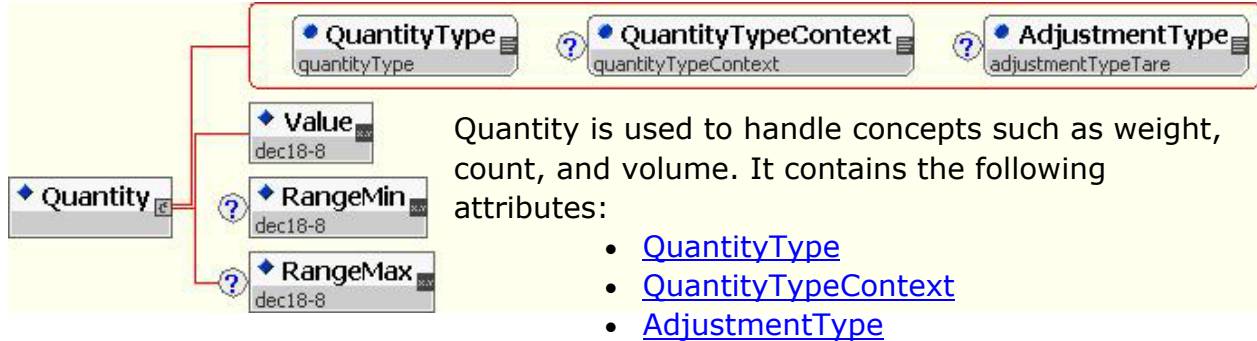


- [InformationalQuantity](#)
- [TotalBlanketOrderValue](#)
- [ValidityPeriod](#)
- [ProductionStatus](#)
- [OtherDate](#)
- [ShipToCharacteristics](#)
- [OtherParty](#)
- [TransportModeCharacteristics](#)
- [TransportVehicleCharacteristics](#)
- [TransportUnitCharacteristics](#)
- [TransportLoadingCharacteristics](#)
- [TransportOtherInstructions](#)
- [DeliverySchedule](#)
- [GeneralLedgerAccount](#)
- [AdditionalText](#)



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## Quantity



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

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

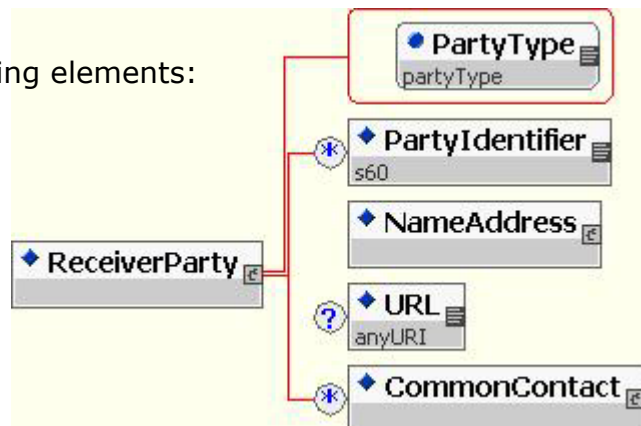
## ReceiverParty

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.



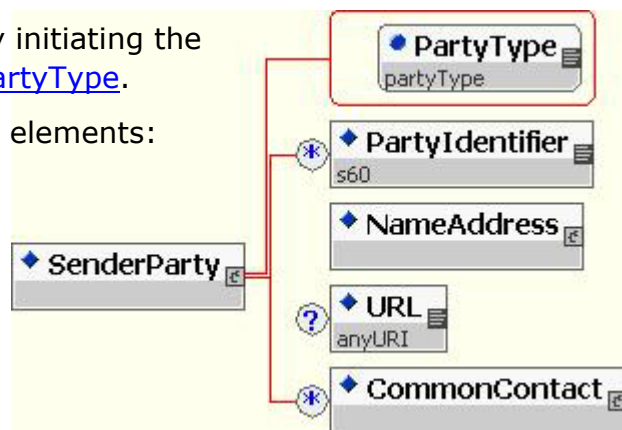
## SenderParty

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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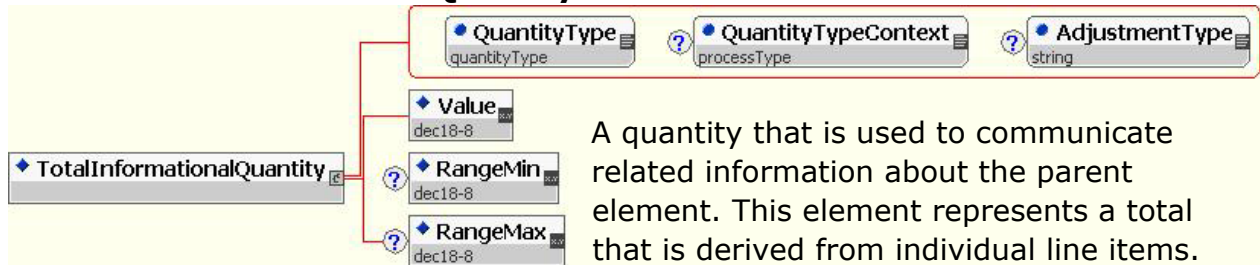
---

## TermsAndDisclaimers

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



## 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](#)

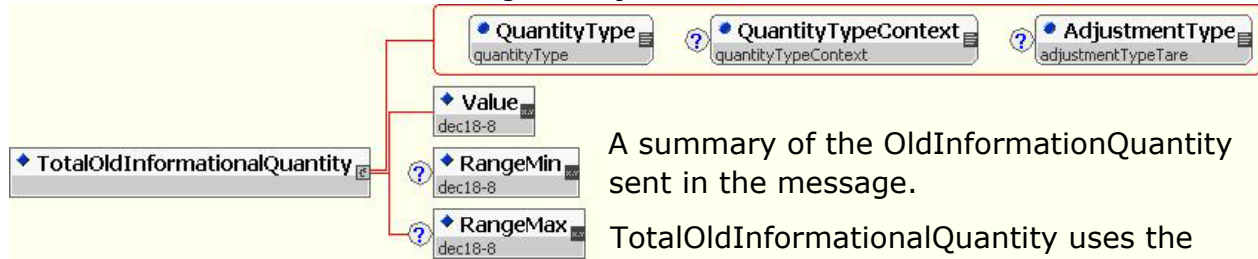
## TotalNumberOfLineItems

The total number of individual line items in the message.



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## TotalOldInformationalQuantity



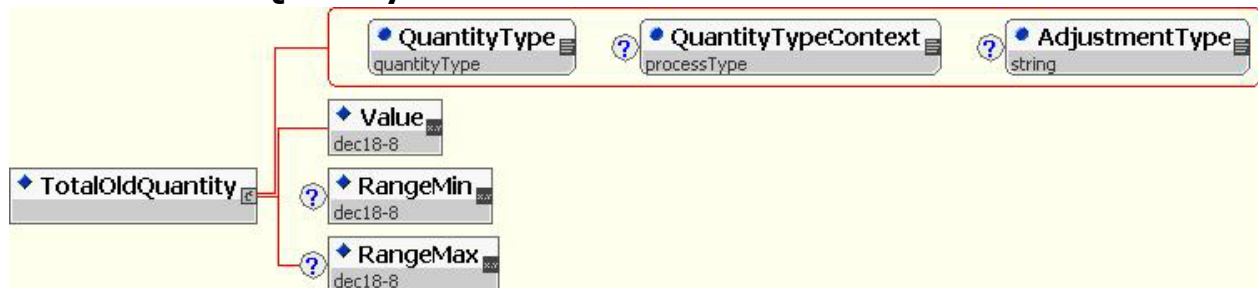
TotalOldInformationalQuantity uses the following attributes:

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

TotalOldInformationalQuantity uses the following elements:

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

## TotalOldQuantity



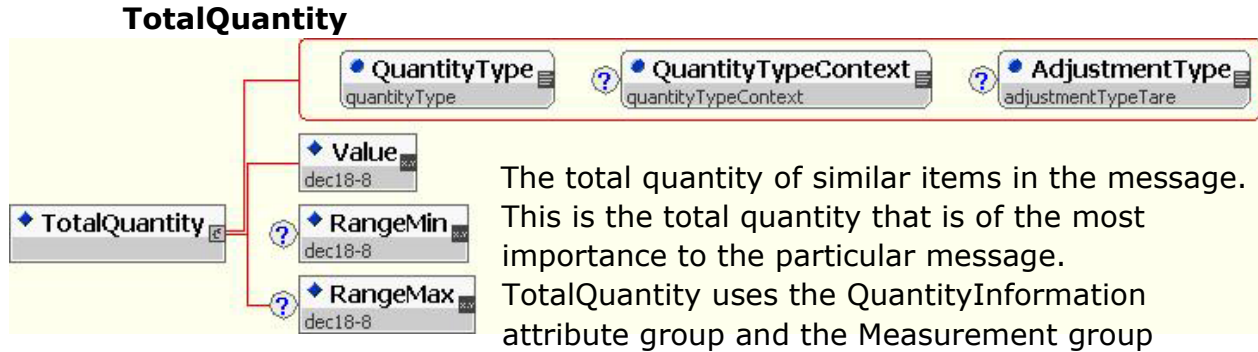
TotalOldQuantity uses the following attributes:

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

TotalOldQuantity uses the following elements:

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

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(element grouping).

TotalQuantity uses the following attributes:

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

TotalQuantity uses the following elements:

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

## 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.

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## Common Definition References - Attributes

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### InventoryChangeReferenceType

Provides the context for the InventoryChangeReference. Uses a restricted version of the [referenceType](#) data type.

**Used in:**

- InventoryChangeReference

**Choices:**

- [AccountNumber](#)
- [BuyerClaimNumber](#)
- [CMRNumber](#)
- [ComplaintNumber](#)
- [ContractLineNumber](#)
- [ContractNumber](#)
- [IndentOrderNumber](#)
- [IntraStatNumber](#)
- [ISODocumentReference](#)
- [MillOrderLineItemNumber](#)
- [MillOrderNumber](#)
- [Other](#)
- [OriginalInvoiceNumber](#)
- [StockOrderNumber](#)
- [SupplierClaimNumber](#)
- [SupplierReferenceNumber](#)
- [SupplierVoyageNumber](#)

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### InventoryChangeStatusType

Defines the status of the entire InventoryChange message at root level.

**Used In:**

- InventoryChange

**Choices:**

- Cancelled
- Original
- Replaced

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## InventoryChangeType

Identifies the reason for the inventory change

### Used in:

- InventoryChange

### Choices:

- **Buy** – The material has been purchased
- **Classification** – The inventory change is due to a change in classification
- **InventoryTransfer** – The material has been transferred
- **LocationTransfer** – The material has been moved
- **Rewrapping** – The material has been rewrapped
- **Sell** – The material has been sold

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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            | • Invoice                                 |
| • BusinessAcknowledgement | • OrderConfirmation                       |
| • CallOff                 | • OrderStatus                             |
| • Complaint               | • PackagingDescription                    |
| • ComplaintResponse       | • ProductDescription                      |
| • CreditDebitNote         | • ProductQuality                          |
| • DeliveryMessage         | • PurchaseOrder                           |
| • DeliveryMessageBook     | • RFQ                                     |
| • EndUses                 | • RFQResponse                             |
| • GoodsReceipt            | • ShippingInstructions                    |
| • InfoRequest             | • SenderProduct-<br>AttributesDescription |
| • InventoryChange         | • TermsAndDisclaimers                     |
| • InventoryStatus         | • 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.

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

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## 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.
- **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

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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 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.

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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.
- **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.

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- **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.
- **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.

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- **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.
- **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.

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## 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.
- **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.

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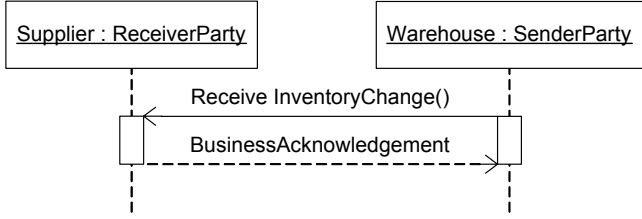
## InventoryChange Business Scenarios

### Listing of Business Scenarios

<a href="#"><u>Scenario A</u></a>	Package totally damaged by truck in warehouse
<a href="#"><u>Scenario B</u></a>	Package partly damaged by truck in warehouse, decision to rewrap (partnership agreement)
<a href="#"><u>Scenario C</u></a>	Package damaged by truck in warehouse, decision not to rewrap but sell (partnership agreement)
<a href="#"><u>Scenario D</u></a>	Package "disappeared" in warehouse
<a href="#"><u>Scenario E</u></a>	Inventory Transfer of ownership caused by borrowing inventory
<a href="#"><u>Scenario F</u></a>	Location Transfer caused by moving inventory from one location to another

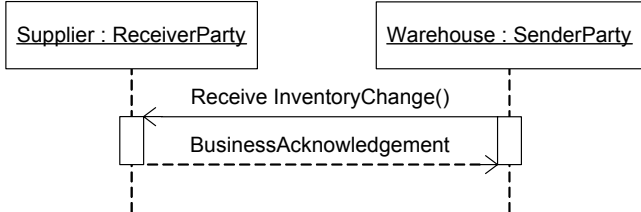
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### Scenario A

<b>Message</b>	Inventory Change
<b>Type</b>	Waste
<b>Business Scenario</b>	<p>Clam truck totally damage one or several reels in the warehouse. Reels cannot be used for any printing purposes and cannot be recycled.</p>  <pre> sequenceDiagram     participant Warehouse as Warehouse : SenderParty     participant Supplier as Supplier : ReceiverParty     Warehouse-&gt;&gt;Supplier: Receive InventoryChange()     Supplier--&gt;&gt;Warehouse: BusinessAcknowledgement     </pre>
<b>Outcome</b>	Change of inventory figures in warehouse
<b>Initiator</b>	Warehouse/Customer
<b>Receiver</b>	Supplier
<b>Preconditions</b>	The goods has to be delivered and received at the warehouse
<b>Trigger</b>	Damage in warehouse, and waste classification by warehouse operator
<b>Step 1</b>	<p>Warehouse/customer sends an inventory change message with the type waste to the supplier. The following information included in the InventoryChange message is particular to this Use Case.</p> <ul style="list-style-type: none"> <li>• InventoryChangeType</li> <li>• Change Reason code</li> <li>• Sender</li> <li>• Receiver</li> <li>• Warehouse</li> <li>• Purchase order info</li> <li>• Package/Reel ID</li> <li>• Quantity</li> </ul>
<b>Step 2</b>	Message received by supplier and wasted reels updated in supplier ERP and correct stock figure are obtained in supplier ERP. This also generates info for claim handling, insurance, costs and tracking for the supplier ERP.

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### Scenario B

<b>Message</b>	Inventory Change
<b>Message Type</b>	Rewrapping. Pallet of sheets damaged by careless truck driver. Pallet unwrapped by warehouse operator. Damaged sheets removed from pallet. Pallet rewrapped and new weight registered in warehouse system.
<b>Business Scenario</b>	<p>Inventory change message created by warehouse operator and sent from warehouse to supplier</p>  <pre> sequenceDiagram     participant Warehouse as Warehouse : SenderParty     participant Supplier as Supplier : ReceiverParty     Warehouse-&gt;&gt;Supplier: Receive InventoryChange()     Supplier--&gt;&gt;Warehouse: BusinessAcknowledgement     </pre>
<b>Outcome</b>	Inventory changed received by supplier and updated in supplier ERP. Correct stock figure obtained in supplier ERP.
<b>Initiator</b>	Warehouse/customer
<b>Receiver</b>	Supplier
<b>Preconditions</b>	This Use Case assumes the Supplier has previously sent delivery message to warehouse.
<b>Trigger</b>	Damage/rewrapping entry at warehouse operator
<b>Step 1</b>	<p>Warehouse operator sends InventoryChange message to supplier.</p> <p>The following information included in the InventoryChange message is particular to this Use Case.</p> <ul style="list-style-type: none"> <li>• InventoryChangeType</li> <li>• Change Reason code</li> <li>• Sender</li> <li>• Receiver</li> <li>• Warehouse</li> <li>• Purchase order info</li> <li>• Package/Reel ID</li> <li>• Quantity</li> </ul>
<b>Step 2</b>	Message received by supplier and changed weights updated on reels updated in supplier ERP and correct stock figure are obtained in supplier ERP. The message also generates info for cost, insurance, and tracking in supplier ERP.

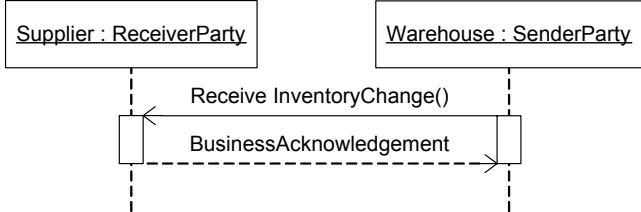
## InventoryChange Documentation - papiNet Standard - Version 2.10

### Scenario C

<b>Message</b>	Inventory Change
<b>Message Type</b>	Classification
<b>Business Scenario</b>	<p>Old stock is classified as not prime goods, cannot be delivered to original customer. Info to be transferred to both customer and supplier.</p> <pre> sequenceDiagram     participant Warehouse as Warehouse : SenderParty     participant Supplier as Supplier : ReceiverParty     Warehouse-&gt;&gt;Supplier: Receive InventoryChange()     Supplier--&gt;&gt;Warehouse: BusinessAcknowledgement     </pre>
<b>Outcome</b>	Update of stock content in supplier ERP system and in customer ERP system
<b>Initiator</b>	Warehouse
<b>Receiver</b>	Supplier/Customer
<b>Preconditions</b>	Delivery message from supplier to warehouse has to be delivered to warehouse operator and to customer
<b>Trigger</b>	
<b>Step 1</b>	<p>Warehouse sends message to supplier and to customer. The following information included in the InventoryChange message is particular to this Use Case.</p> <ul style="list-style-type: none"> <li>• InventoryChangeType</li> <li>• Change Reason code</li> <li>• Sender</li> <li>• Receiver</li> <li>• Warehouse</li> <li>• Other party</li> <li>• Purchase order info</li> <li>• Package/Reel ID</li> <li>• Quantity</li> </ul>
<b>Step 2</b>	<p>Message received by supplier and customer and changed classification of stock updated in supplier and Customer ERP and correct stock figures are obtained in respective ERP. Also generates info for further actions, adding stock to "Sale to other customers or purposes", cost, insurance and tracking in supplier ERP</p>

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### Scenario D

<b>Message</b>	Inventory Change
<b>Message Type</b>	Physical stock count
<b>Business Scenario</b>	<p>A physical stock check is performed by warehouse operator. Reconciliation of stock levels is done in warehouse operator ERP. Differences to booking values are detected and InventoryChange message is created and sent to supplier and or customer.</p>  <pre> sequenceDiagram     participant Warehouse as Warehouse : SenderParty     participant Supplier as Supplier : ReceiverParty     Warehouse-&gt;&gt;Supplier: Receive InventoryChange()     Supplier--&gt;&gt;Warehouse: BusinessAcknowledgement     </pre>
<b>Outcome</b>	Actual and correct stock figures are updated in supplier and/or customer ERP.
<b>Initiator</b>	Warehouse operator
<b>Receiver</b>	Supplier and/or customer
<b>Preconditions</b>	Delivery message needs to be sent to warehouse/customer
<b>Trigger</b>	Physical inventory in warehouse
<b>Step 1</b>	<p>Warehouse operator sends message to supplier/customer The following information included in the InventoryChange message is particular to this Use Case.</p> <ul style="list-style-type: none"> <li>• InventoryChangeType</li> <li>• Change Reason code</li> <li>• Sender</li> <li>• Receiver</li> <li>• Warehouse</li> <li>• Other party</li> <li>• Purchase order info</li> <li>• Package/Reel ID</li> <li>• Quantity</li> </ul>
<b>Step 2</b>	Message received by supplier and customer and downgraded stock updated in supplier and Customer ERP and correct stock figures are obtained in respective ERP. Message also generates info for further actions, costs and tracking in supplier ERP

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## Scenario E

<b>Message</b>	Inventory Change
<b>Message Type</b>	Inventory Transfer
<b>Business Scenario</b>	<p>A single reel is borrowed by the Printer from Publisher 1 for use in completing the printing of Publisher 2's print job.</p> <pre> sequenceDiagram     participant P1 as Publisher 1 : ReceiverParty     participant P2 as Publisher 2 : ReceiverParty     participant Printer as Printer : SenderParty     Printer-&gt;&gt;P1: Message1     Printer-&gt;&gt;P2: Message1     </pre>
<b>Outcome</b>	Actual and correct stock figures are updated in both Publisher 1 and Publisher 2 ERP systems.
<b>Initiator</b>	Printer
<b>Receiver</b>	Customer and/or Supplier
<b>Preconditions</b>	
<b>Trigger</b>	
<b>Step 1</b>	<p>Printer sends separate messages to Publisher 1 subtracting the reel from inventory and to Publisher 2 adding the reel to inventory.</p> <p>The following information included in the InventoryChange message is particular to this Use Case.</p> <ul style="list-style-type: none"> <li>• InventoryChangeType</li> <li>• Change Reason code</li> <li>• Sender</li> <li>• Receiver; Publisher 1 is borrowed from; Publisher 2 is using the reel</li> <li>• Warehouse</li> <li>• Other party</li> <li>• Purchase order info</li> <li>• Package/Reel ID</li> <li>• Quantity: zero for Publisher 1 to subtract from inventory; weight of reel for Publisher 2 to add to inventory</li> </ul>
<b>Step 2</b>	Publisher 1 subtracts the reel from its inventory; the Printer will likely substitute a replacement reel.

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<b>Step 3</b>	Publisher 2 adds the reel to its inventory; a Usage message will likely include the consumption of the reel
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### Scenario F

<b>Message</b>	Inventory Change
<b>Message Type</b>	Location Transfer
<b>Business Scenario</b>	<p>A Printer has moved a reel from one print location to another print location. The reel needs to be removed from the inventory at one location and added to the inventory at another.</p> <pre> sequenceDiagram     participant P as Publisher : ReceiverParty     participant S as Printer : SenderParty     S-&gt;&gt;P: Receive InventoryChange()     P--&gt;&gt;S: BusinessAcknowledgement     </pre>
<b>Outcome</b>	Actual and correct stock figures are updated in Customer ERP system.
<b>Initiator</b>	Printer
<b>Receiver</b>	Customer and/or Supplier
<b>Preconditions</b>	
<b>Trigger</b>	
<b>Step 1</b>	<p>Printer sends message to customer/supplier The following information included in the InventoryChange message is particular to this Use Case.</p> <ul style="list-style-type: none"> <li>• InventoryChangeType</li> <li>• Change Reason code</li> <li>• Sender</li> <li>• Receiver</li> <li>• LocationParty: the location where the reel has been transferred to</li> <li>• Other party</li> <li>• Purchase order info</li> <li>• Package/Reel ID</li> <li>• Quantity</li> </ul>
<b>Step 2</b>	Customer ERP system is updates the location of the reel.