



papiNet

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

Usage Documentation

Papinet Standard - Version 2.10

April 2003

Usage Documentation - papiNet Standard - Version 2.10

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Message Documentation

The Usage Message

An Overview of the Usage Message

The Usage message is used to notify a supplier or buyer that material has been consumed within the end users manufacturing process. The Usage message can be used to support different managed inventory processes such as vendor-managed inventory and inventory replenishment. It can also be used to support an invoicing-on-usage arrangement. The Usage message describes the product and the amount of product consumed. It may contain either detail or aggregated information of the physical items consumed. Within the supply chain process, this message can be used to help monitor physical inventory.

Prior to implementing a Usage 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 the frequency of messages, the point in the manufacturing process at which the product is considered consumed, content detail, units of measure, and how invoicing should be done.

The Scope of the Usage Message

The Usage message specifies product consumed during the end users manufacturing process. Any inventory adjustments that are a result of something other than the manufacturing process (e.g. - damage, returned stock, claims, etc.) must be managed using other business processes and messages, such as the InventoryChange message.

Usage information can be listed as an aggregated amount or in detail. An aggregated amount might be used when usage reporting is done on a monthly basis where only summarized information needs to be reported. Detail usage can be reported when itemized consumption should be reported.

Usage Message Types

The Usage message has no special types associated with it.

Usage Business Rules

General Usage Business Rules

The following table lists the business rules that apply to a Usage Message.

Reference	Rule
USG001	Each usage line item detail must contain either an aggregated usage line item detail, or one or more itemized usage line item details.

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Reference	Rule
USG002	Each aggregated usage line item must contain a quantity specifying the amount of product consumed.
USG003	Each aggregated usage line item must contain Product.
USG004	Each usage line item detail must specify a usage status that identifies the item state after consumption.
USG005	Each usage line item detail must specify an Identifier that relates to the product consumed. An ItemType attribute qualifies which type of an item is identified (e.g. ReelItem)
USG006	Each usage message must contain a usage summary specifying the total number of line items. and total quantities used.
USG007	Each usage summary may contain the total quantities used.
USG008	If the usage message is to be sent to a supplier, it can only include consumption of product from that supplier.
	There is only one SupplierParty per message, so if there were more than one supplier for the usage reporting, there would be separate messages.
USG009	If the reporting party wants to cancel a previously sent usage message it can do so by resending the message with a usage status type of cancelled. The 'cancel' message must reference the original usage number in the header reference.
USG010	If the reporting party wants to replace a previously sent usage message it can do so by sending a new message with a usage status type of replaced. The 'replace' message must reference the original usage number in the header reference.
USG011	InformationalQuantity may be used to report aggregate spoilage, e.g. Waste = "MakeReady".
USG012	Paper Caused Web Breaks may be reported at both the usage line item and usage line item detail level.

Processing Usage

The usage message can be used by the recipient to reduce inventory levels, or to track material usage at specific levels like job, title, etc. If reporting is done at a usage line item detail level, the remaining state of the individual items will be specified in the message.

Status Values Used When Processing Usage

The usage message can be sent with one of two values in the UsageStatusType element. This element indicates whether to process the usage message as an original document or as a replacement to a previously sent usage message.

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If the Consuming Party is sending itemised usage information, then each detail item needs to have a UsageStatus that identifies the remaining state of the consumed item.

Level	Attribute	Value
Message	UsageStatusType	<p>Original – Indicates that this is the first transmission of the message.</p> <p>Cancelled – Indicates that the ConsumingParty wants to replace a previous usage.</p> <ul style="list-style-type: none"> • Per business rule USG009, the ConsumingParty must reference the usage number of the original usage message that this message replaces. <p>Replaced – Indicates that the ConsumingParty wants to replace a previous usage.</p> <ul style="list-style-type: none"> • Per business rule USG010, the ConsumingParty must reference the usage number of the original usage message that this message replaces.
UsageLineItem-Detail	UsageStatus	<p>The Usage Status element identifies the state of an individual item after consumption has been applied to it. The state of the item can be one of the following:</p> <p>Consumed – Indicates that the entire item has been consumed.</p> <p>MachineReject – Indicates that the item has been rejected from the production machine.</p> <p>StrippedButt – Indicates that this item has been prepped for consumption but has not been used in the manufacturing process.</p> <p>UsableButt – Indicates that a partial amount of product has been consumed and the remainder is useable.</p>

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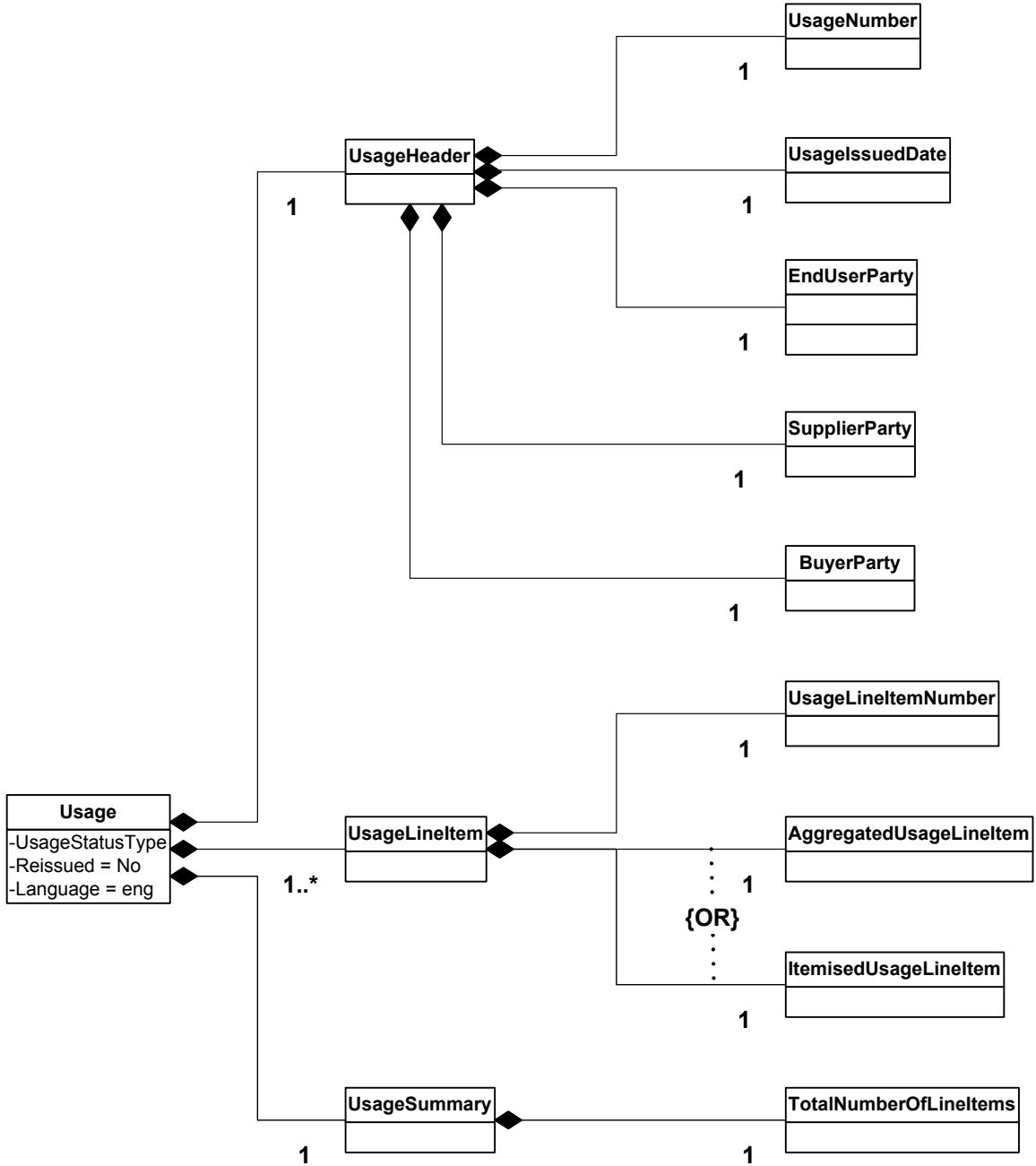
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Level	Attribute	Value
		<p>UnusableButt - Indicates that a partial amount of product has been consumed and the remainder is not useable.</p> <p>UsablePallet- Indicates that a partial amount of product has been consumed and the remainder is useable.</p> <p>UnusablePallet - Indicates that a partial amount of product has been consumed and the remainder is not useable.</p>

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High-level UML Diagram of Usage



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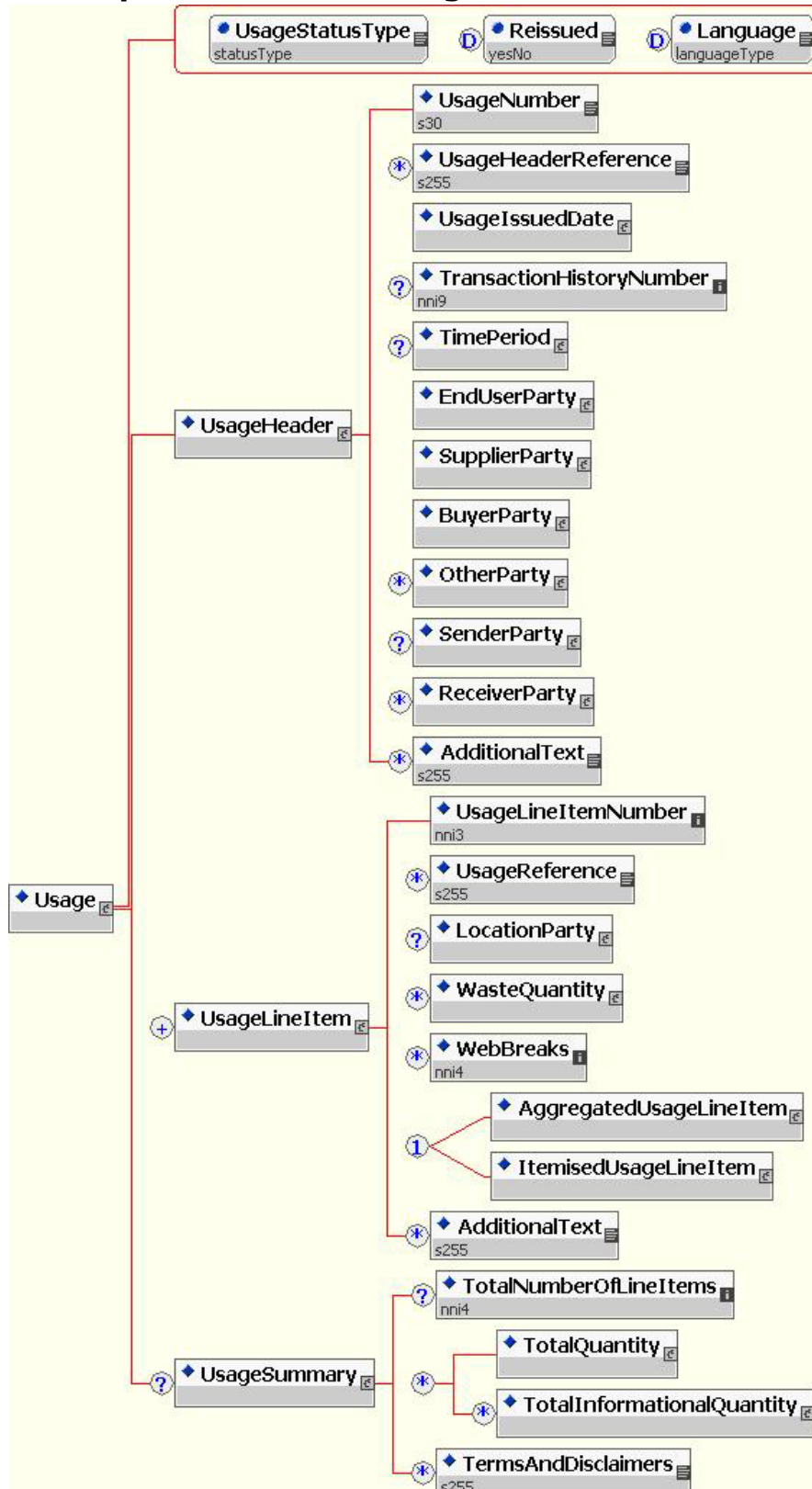
Overview of Usage Structure

	<u>Type</u>	<u>Required</u>	<u>Occurrence</u>
Usage	Root		
@UsageStatusType	Attribute	Required	Single
@Reissued	Attribute	Optional	Single
@Language	Attribute	Optional	Single
UsageHeader	Element	Required	Single
UsageNumber	Element	Required	Single
UsageHeaderReference	Element	Optional	Multiple
UsageIssuedDate	Element	Required	Single
TransactionHistoryNumber	Element	Optional	Single
TimePeriod	Element	Optional	Single
EndUserParty	Element	Required	Single
SupplierParty	Element	Required	Single
BuyerParty	Element	Required	Single
OtherParty	Element	Optional	Multiple
SenderParty	Element	Optional	Single
ReceiverParty	Element	Optional	Multiple
AdditionalText	Element	Optional	Multiple
UsageLineItem	Element	Required	Multiple
UsageLineItemNumber	Element	Required	Single
UsageReference	Element	Optional	Multiple
LocationParty	Element	Optional	Single
WasteQuantity	Element	Optional	Multiple
WebBreaks	Element	Optional	Multiple
or AggregatedUsageLineItem	Element	Required	Single
ItemisedUsageLineItem	Element	Required	Single
AdditionalText	Element	Optional	Multiple
UsageSummary	Element	Optional	Single
TotalNumberOfLineItems	Element	Optional	Single
TotalQuantity	Element	Optional	Single
TotalInformationalQuantity	Element	Optional	Multiple
TermsAndDisclaimers	Element	Optional	Multiple

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Graphical Representation of Usage



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Usage Schema Structure and Processing Logic

This section provides a detailed graphical view of the Usage Schema structure; the Usage root element, the UsageHeader, the UsageLineItem, and the UsageSummary. 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). This section also contains a review of the processing logic that is special to the Usage message.

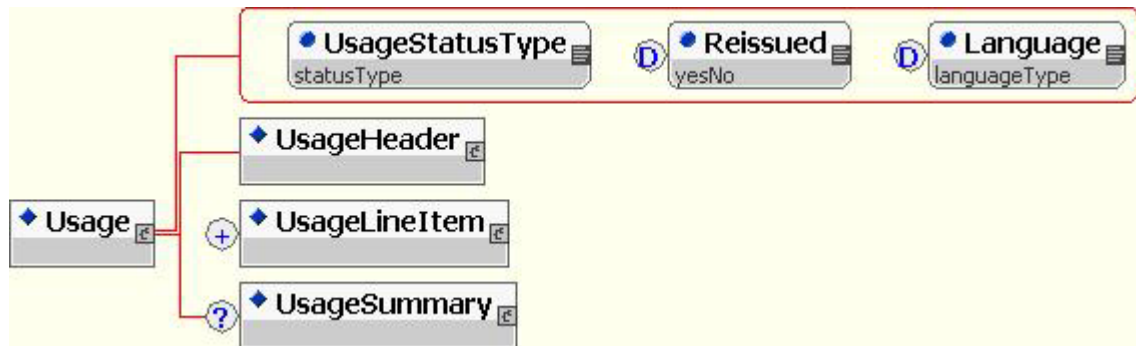
The graphical display of the Schema contains occurrence indicators and data type information. These indicators appear to the left of the boxes in the schema graphic and they have the following meanings:

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

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Usage Root



Usage has a required attribute that indicates whether the message is original, cancelled, or a replacement

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

Usage 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](#)
 - ✧ Yes
 - ✧ No

An attribute to communicate the Language

- [Language](#), optional defaults to “eng” (English)
 - ✧ Indicates the language for the content of the message.

The Usage message also contains the following elements:

- [UsageHeader](#)
- [UsageLineItem](#)
- [UsageSummary](#)

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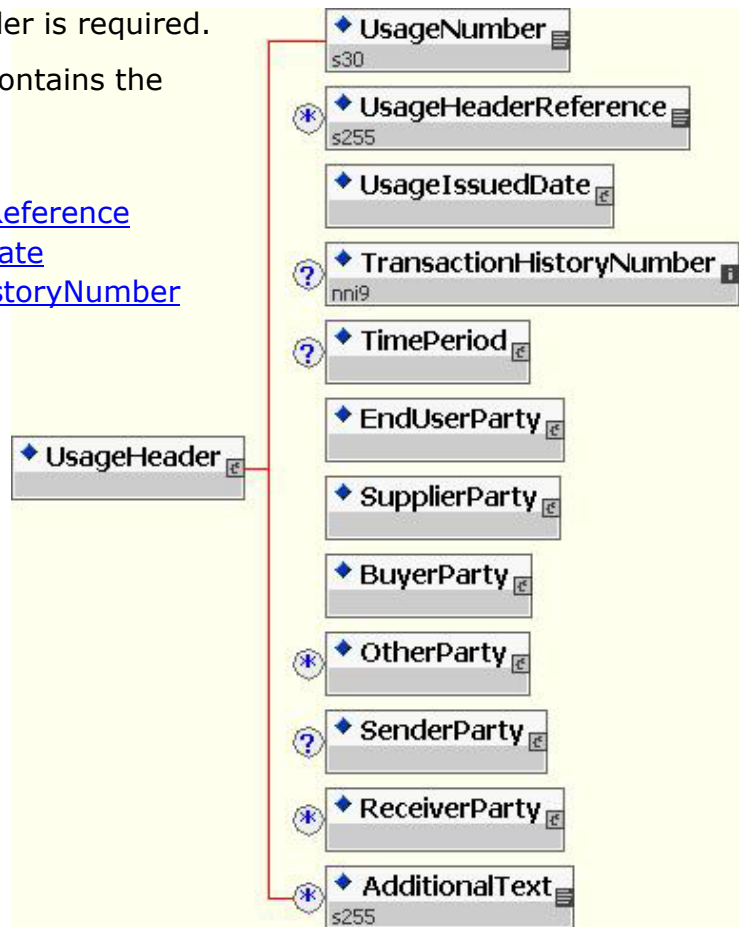
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UsageHeader

A single UsageHeader is required.

The UsageHeader contains the following elements:

- [UsageNumber](#)
- [UsageHeaderReference](#)
- [UsageIssuedDate](#)
- [TransactionHistoryNumber](#)
- [TimePeriod](#)
- [EndUserParty](#)
- [SupplierParty](#)
- [BuyerParty](#)
- [OtherParty](#)
- [SenderParty](#)
- [ReceiverParty](#)
- [AdditionalText](#)



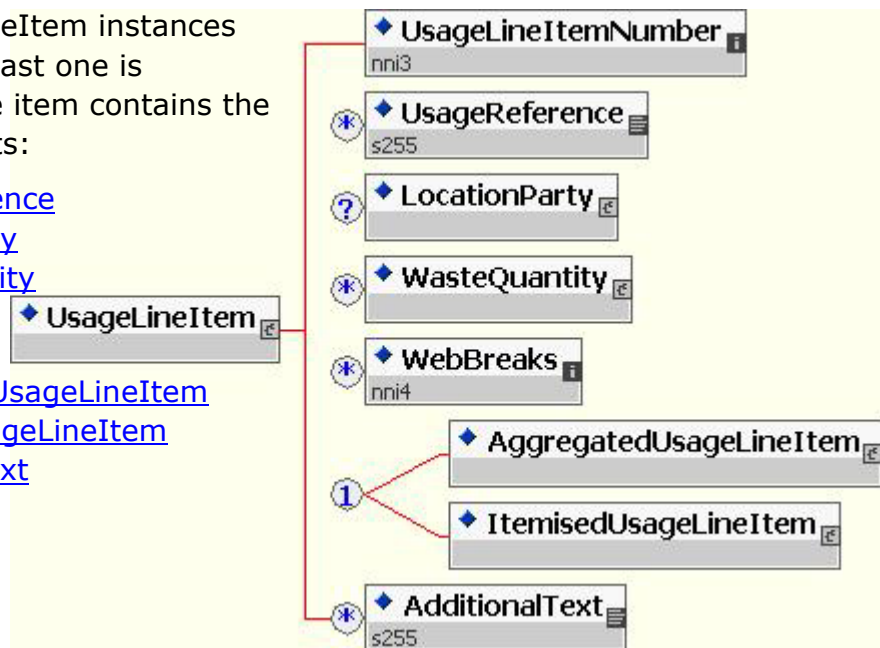
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UsageLineItem

Multiple UsageLineItem instances are allowed; at least one is required. The line item contains the following elements:

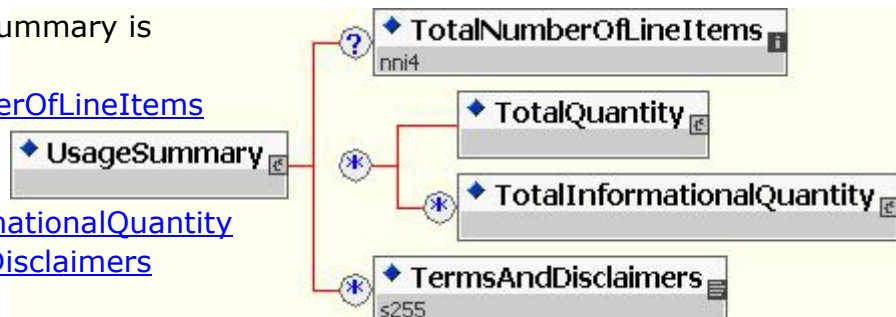
- [UsageReference](#)
- [LocationParty](#)
- [WasteQuantity](#)
- [WebBreaks](#)
- [AggregatedUsageLineItem](#)
- [ItemisedUsageLineItem](#)
- [AdditionalText](#)



UsageSummary

A single UsageSummary is required.

- [TotalNumberOfLineItems](#)
- [Total-Quantity](#)
- [TotalInformationalQuantity](#)
- [TermsAndDisclaimers](#)



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Common Definition References - Element

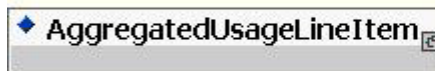
AdditionalText

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.



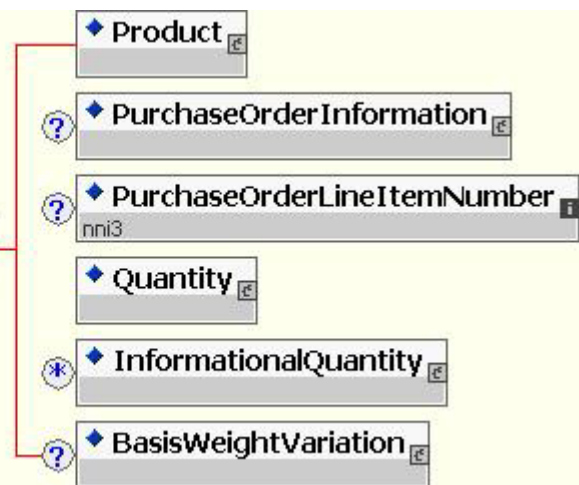
AggregatedUsageLineItem

A group item that summarises item usage at the Product level or at the Product plus PurchaseOrder level. Details concerning the individual items used are not included.



AggregatedUsageLineItem has the following elements:

- [Product](#)
- [PurchaseOrderInformation](#)
- [PurchaseOrder-LineItemNumber](#)
- [Quantity](#)
- [InformationalQuantity](#)
- [BasisWeightVariation](#)

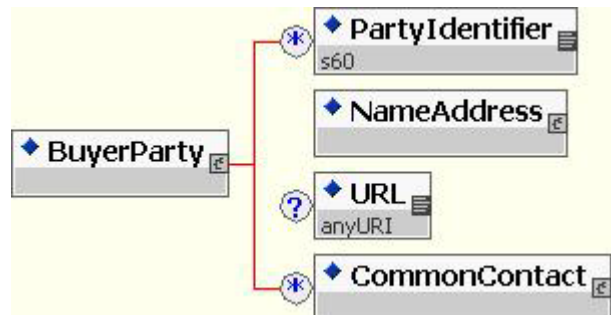


BuyerParty

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

BuyerParty contains the following elements:

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



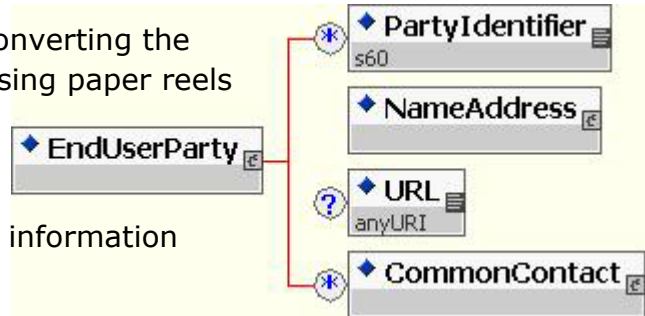
Refer to [Party](#) for additional information

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EndUserParty

The party using, consuming, or converting the product. For example, a printer using paper reels for a print job for a publisher. The final ShipTo destination for a product is normally to the end user's facilities. Refer to [Party](#) for information about the structure.

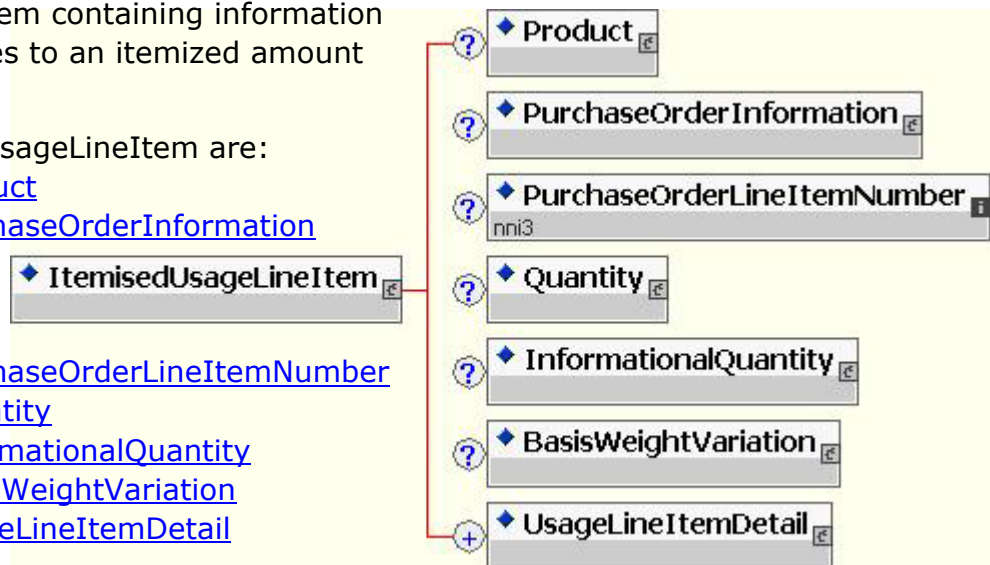


ItemisedUsageLineItem

A group item containing information that relates to an itemized amount of usage.

ItemisedUsageLineItem are:

- [Product](#)
- [PurchaseOrderInformation](#)
- [PurchaseOrderLineItemNumber](#)
- [Quantity](#)
- [InformationalQuantity](#)
- [BasisWeightVariation](#)
- [UsageLineItemDetail](#)



LocationParty

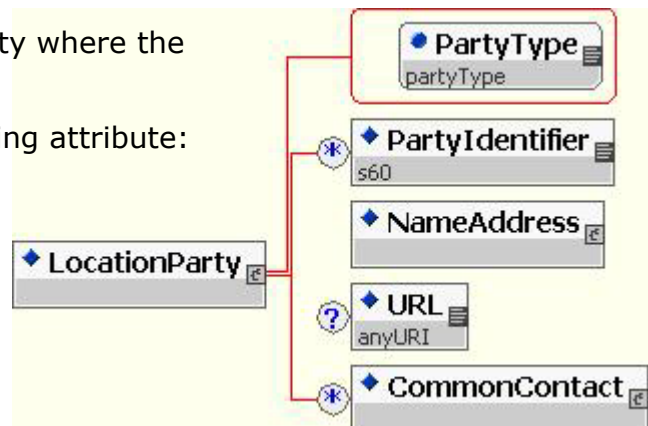
The organization or business entity where the product event take place.

LocationParty contains the following attribute:

- [PartyType](#)

It also contains the following elements:

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



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

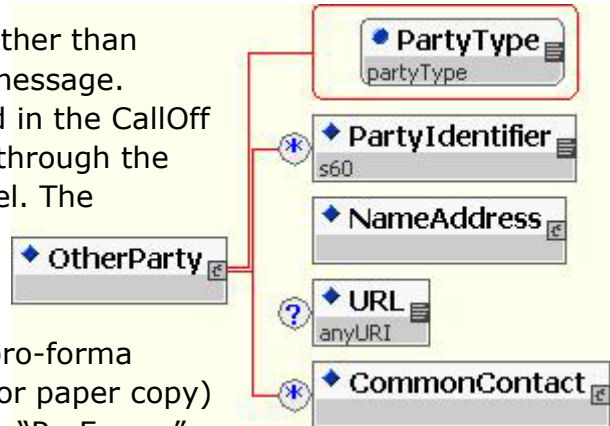
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OtherParty

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

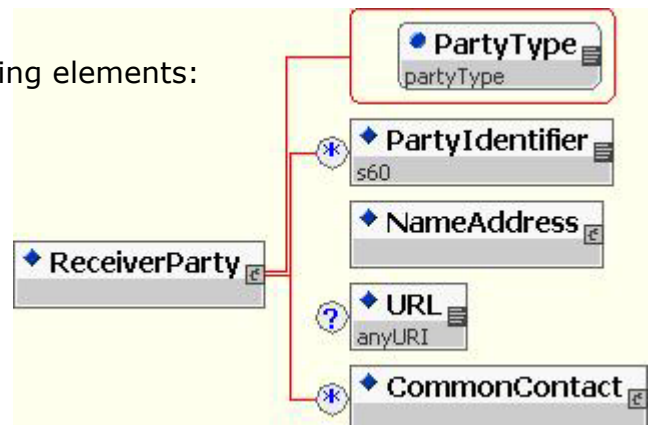
ReceiverParty

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.



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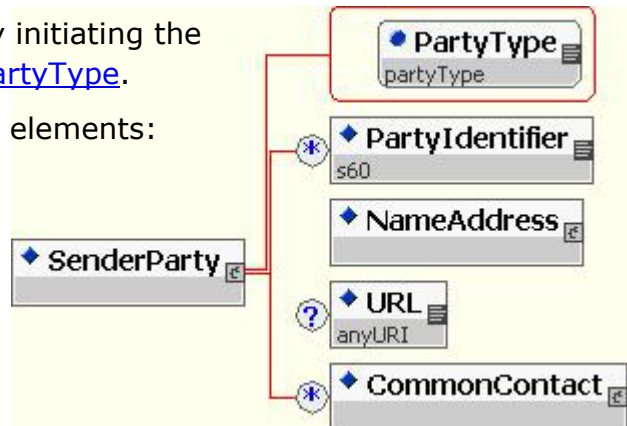
SenderParty

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.



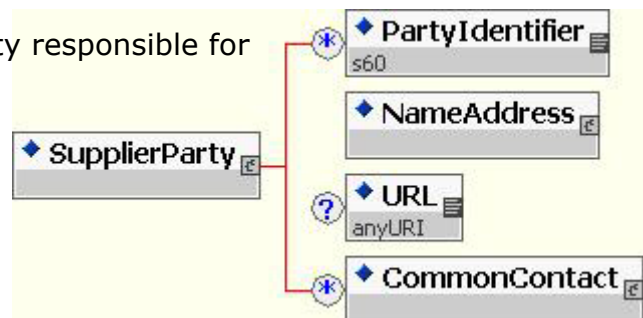
SupplierParty

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.



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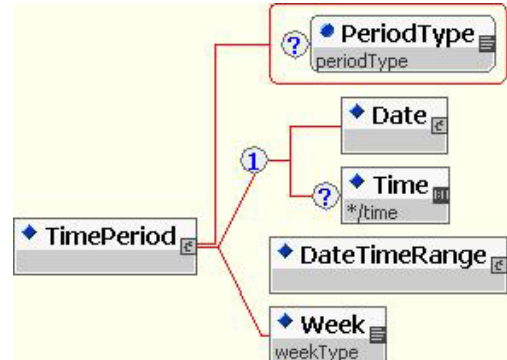
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TimePeriod

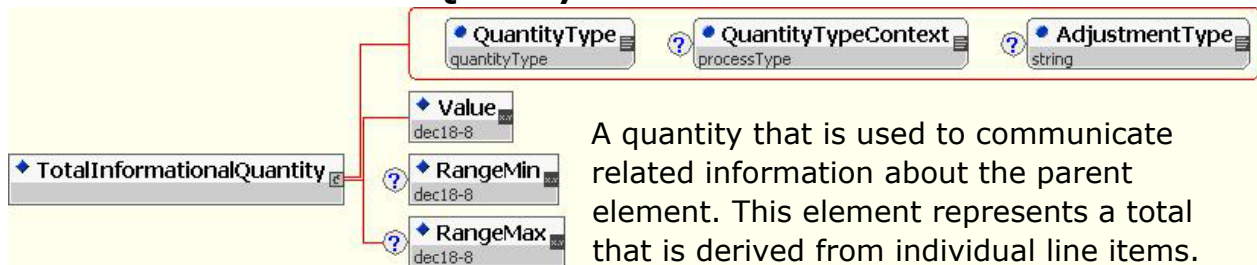
The TimePeriod element is used to communicate a duration period of time as indicated in [PeriodType](#).

TimePeriod contains the following elements:

- [Date](#)
- [Time](#)
- [DateTimeRange](#)
- [Week](#)



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

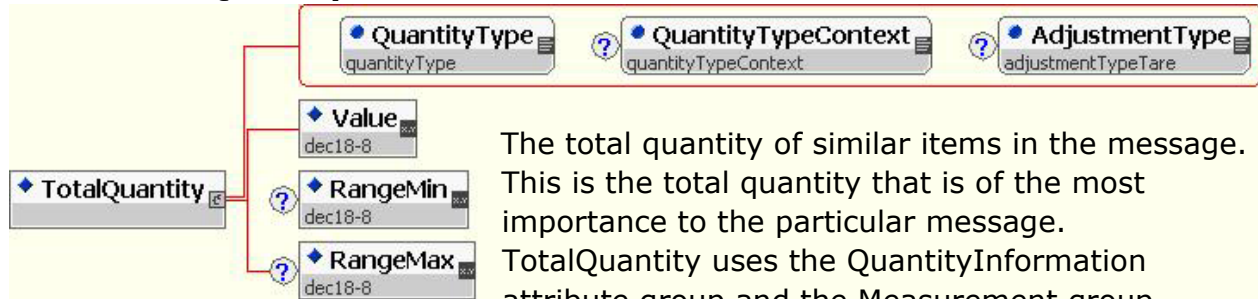
The total number of individual line items in the message.



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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](#)

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.

UsageHeaderReference

A repeatable element that details relevant



references to the usage message. The content of the UsageHeaderReference is identified by the [UsageReferenceType](#) attribute.

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UsageLineItemDetail

For each ItemisedUsageLineItem there must be one or more UsageLineItemDetail. This element lists the specific product that has been consumed.



UsageLineItemDetail contains the following attributes:

- [UsageStatus](#)
- [ItemType](#)

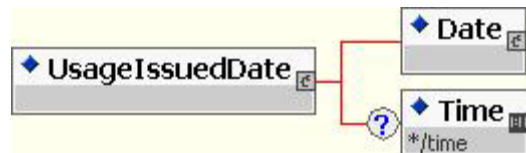


UsageLineItemDetail contains the following elements:

- [Identifier](#)
- RawMaterialSet
- [Quantity](#)
- [InformationalQuantity](#)
- [WebBreaks](#)

UsageIssuedDate

Identifies the [Date](#) and [Time](#) when the usage information has been reported.



UsageNumber

Unique identifier assigned to each Usage message as agreed by the trading partners.



UsageReference

A repeatable element that details relevant references pertaining to the usage. The content of the UsageReference is identified by [UsageReferenceType](#).



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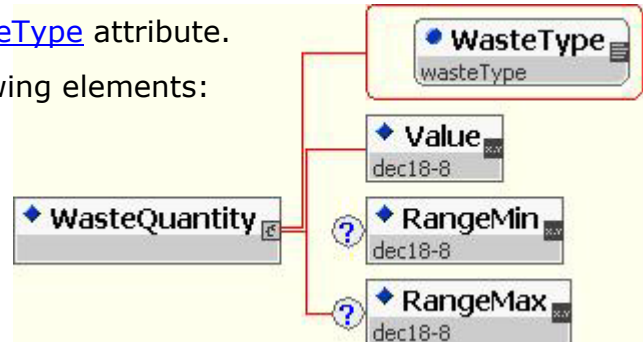
WasteQuantity

The quantity of product wasted.

WasteQuantity contains the [WasteType](#) attribute.

WasteQuantity contains the following elements:

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



WebBreaks

The number of web breaks.

WebBreaks contains the [WebBreakType](#) attribute.



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Common Definition References – Attributes

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
- 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

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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 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.

Usage Documentation

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- **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. 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).

Usage Documentation

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- **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.
- **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.

Usage Documentation

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- **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.
- **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.

Usage Documentation

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- **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.

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.

UsageReferenceType

Provides an indication of the contents of the UsageHeaderReference

Used in:

- UsageHeaderReference

Choices:

- ContractLineNumber
- ContractNumber
- CustomerReference-
Number
- DeliveryBooking-
Number
- FormType
- IndentOrderNumber
- IntraStatNumber
- ISODocument-
Reference
- IssueEvent
- JobNumber
- MillOrderLine-
ItemNumber
- MillOrderNumber
- OriginalInvoiceNumber
- OriginalUsageNumber
- Other
- PubName
- PubNumber
- PurchaseOrderNumber
- StockOrderNumber
- SupplierCallOffNumber
- SupplierReference

Usage Documentation

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UsageStatusType

Identifies the status of the entire Usage message

Used in:

- Usage

Choices:

- **Cancelled** – Indicates that the ConsumingParty wants to cancel the previous message
- **Original** – Indicates that this is the first transmission on the message
- **Replaced** – Indicates that the ConsumingParty wants to replace the previous message

UsageStatus

The Usage Status element identifies the state of an individual item after consumption has been applied to it.

Used in:

- UsageLineItemDetail

Choices:

- **Consumed** – Indicates that the entire item has been consumed.
- **MachineReject** - Indicates that the item has been rejected from the production machine
- **PartialSkid** -
- **StrippedButt** – Indicates that this item has been prepped for consumption but has not been used in the manufacturing process.
- **UsableButt** – Indicates that a partial amount of a reel product has been consumed and the remainder is useable.
- **UnusableButt** – Indicates that a partial amount of a reel product has been consumed and the remainder is not useable.
- **UsablePallet** – Indicates that a partial amount of a pallet product has been consumed and the remainder is useable.
- **UnusablePallet** – Indicates that a partial amount of a pallet product has been consumed and the remainder is not useable.

Usage Documentation

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Additional Information for Usage Message

Reported consumption can either be Aggregated or Itemised.

- Aggregated consumption is reported as a total quantity of a product consumed
- Itemised consumption is where individual item identifiers detail individual items consumed in whole or in part.

Prior to physically consuming the item, consumption is assumed to be for the whole item, for example if the message is triggered at a stripping station.

After physically consuming the item, consumption can be reported in more detail.

- full item consumed
- part of item consumed
- part of item consumed and rest unusable
- press rejected

The trigger point that causes the message to be generated must have been agreed in the Trading Partner Agreement. For example, for paper reels, trigger points in the process could be as a reel is:

- Brought into the warehouse
- Pulled out of the warehouse
- Brought in stripping
- In lay down
- Loaded on reel arm
- Consumed in press

Any inventory reduction that is not created by product usage must be reflected in the Inventory Change message.

Each usage message may reference a specific job or title. The information is contained in UsageHeaderReference. Sub parts of the job or title can be referenced at the UsageReference element in the body of the message. Any attributes populated in the UsageHeaderReference that are again populated in the UsageReference at the line item level are overridden by the reference at the line item level.

Usage Documentation

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Usage Business Scenarios

Listing of Business Scenarios

<u>Scenario A</u>	A ConsumingParty (Printer) reports Aggregated Usage to a Supplier for an Order Product at end of day
<u>Scenario B</u>	A ConsumingParty (Converter), which converts reels into finished product, reports Itemised Usage to a Supplier; Reels are considered fully Consumed once they are stripped
<u>Scenario C</u>	A ConsumingParty (Printer) reports Itemised Usage to a BuyerParty (Publisher) for the printing of a magazine; a single Supplier's Paper has been consumed. Aggregate spoilage and Paper Caused Web Breaks are also reported.
<u>Scenario D</u>	A ConsumingParty (Printer) reports Itemised Usage to a BuyerParty (Publisher) for the printing of a magazine; paper from multiple Suppliers has been consumed. The ConsumingParty (Printer) also shares Aggregated Usage with those Suppliers whose paper was consumed.
<u>Scenario E</u>	A ConsumingParty (Printer) reports Aggregated Usage on book printing utilizing both reels and sheets to a Merchant Supplier; Usage is reported against a Purchase Order.
<u>Scenario F</u>	A ConsumingParty (Printer) of text books reports Aggregated Usage of reels and sheets; Usage is reported weekly to the Supplier in support of standing Purchase Order replenishment arrangement; Usage is reported monthly aggregated to the Publisher
<u>Scenario G</u>	Replacement of a Usage message
<u>Scenario H</u>	Cancellation of a Usage message

Usage Documentation

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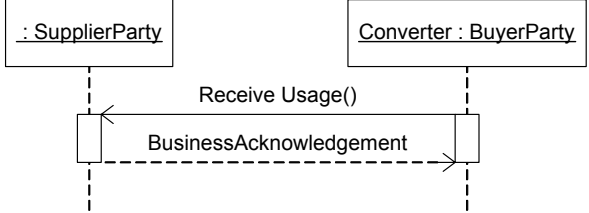
Scenario A

Message	Usage
Business Scenario	<p>An EndUserParty (Printer) reports Aggregated Usage to a Supplier for an Order Product at end of day</p> <pre> sequenceDiagram participant Printer as Printer : BuyerParty participant Supplier as : SupplierParty Printer->>Supplier: Receive Usage() Supplier-->>Printer: BusinessAcknowledgement </pre>
Step 1; Agreement	The Printer and the Supplier have a form of Vendor Managed Inventory where consumption is reported daily. If quantities on hand go below a specified level, the Supplier replenishes the Printer location.
Step 2; Detail Scenario	The Printer, who is also the Buyer of the paper, has consumed 30,000 pounds of Product A, on 7th November 2001 at a Printer Location.
	The Printer sends a Usage document to the Supplier daily
Step 3; Format Header	<p>Format Header Parties</p> <ul style="list-style-type: none"> • EndUserParty = Printer; • BuyerParty = Printer; • SupplierParty = Supplier <p>Reference the Vendor Managed Inventory arrangement by ContractNumber by putting the ContractNumber in UsageHeaderReference with a ReferenceType of ContractNumber</p> <p>Specify the ReportingPeriod of 20011107</p>
Step 4; Format Aggregated Line Item	<p>UsageLineItemNumber is set to 1</p> <p>LocationParty is set to the Printer Location or printing plant</p> <p>AggregatedUsageLineItem is used to report total quantity consumed</p> <p>Product refers to ProductIdentifier for Product A</p> <p>PurchaseOrderInformation is left blank because the Vendor Managed Inventory controls replenishment</p> <p>Quantity - 30,000 Pounds GrossWeight has been consumed</p>
Results	<p>The Supplier ERP System reduces the total inventory for Product A at a particular Printer Location.</p> <p>If inventory is less than the replenishment level, agreed upon replenishment takes place.</p>

Usage Documentation

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Scenario B

Message	Usage
Business Scenario	<p>An EndUserParty (Converter), which converts reels into finished product, reports Itemised Usage to a Supplier ; Reels are considered fully Consumed once they are stripped</p>  <pre> sequenceDiagram participant Converter as Converter: BuyerParty participant Supplier as : SupplierParty Converter->>Supplier: Receive Usage() Supplier-->>Converter: BusinessAcknowledgement </pre>
Step 1; Agreement	The Converter and Supplier have an agreement where usage is reported daily based on those reels that were stripped. The Supplier will re-supply when the reels on hand get to a certain level
Step 2; Detail Scenario	<p>10 full reels have been consumed, 2000 pounds each;</p> <p>The Converter sends a Usage document to the Supplier daily.</p>
Step 3; Format Header	<p>Format Header Parties</p> <ul style="list-style-type: none"> • EndUserParty = Converter; • BuyerParty = Converter; • SupplierParty = Supplier B <p>Specify the usage date in the ReportingPeriod</p>
Step 4; Format Itemised Usage Line Item	<p>UsageLineItemNumber is set to 1</p> <p>LocationParty is set to the converter plant</p> <p>ItemisedUsageLineItem is used to report the detail reels consumed</p> <p>Product is not required since detail reel identifiers are included</p> <p>PurchaseOrderInformation is left blank</p>
Step 5; Format Itemised Usage Line Item Details; Fully Consumed Reels	<p>Usage Status for all reels are marked with a UsageStatus of Consumed</p> <p>The ItemType is ReelItem; the Identifier specifies the Reel Number</p> <p>Quantity is the GrossWeight Consumed; this Quantity is the full weight of the reel</p>
Results	The Supplier ERP System is updated reducing the number of reels on hand.

Usage Documentation

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	Fully consumed reels are removed from the inventory. If re-supply levels are reached, the Supplier will deliver additional reels.
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Usage Documentation

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Scenario C

Message	Usage
Business Scenario	<p>An EndUserParty(Printer) reports Itemised Usage to a BuyerParty (Publisher) for the printing of a magazine; a single Supplier's Paper has been consumed</p> <pre> sequenceDiagram participant Printer as Printer : BuyerParty participant Supplier as : SupplierParty Printer->>Supplier: Receive Usage() Supplier-->>Printer: BusinessAcknowledgement </pre>
Step 1; Agreement	The Printer and the Publisher have an agreement where consumption is reported at end of each job number. Consumption is reported at the detail reel level. Spoilage is reported at the aggregate level. Paper caused web breaks are reported at the detail reel level
Step 2; Detail Scenario	<p>20,150 Pounds have been consumed in the printing of a magazine. 10 full reels have been consumed, 2000 pounds each; 150 Pounds of an additional reel has been consumed. All reels consumed are from Supplier B. There was the following spoilage: Waste Core (5 lbs); Waste Make Ready (10 lbs); Waste Running (15 lbs); Waste Strip (20 lbs) and Waste Wrapper (5 lbs). There was one Paper Caused Web Break.</p> <p>The Printer sends a Usage document to the Publisher within an agreed upon time after end of job</p>
Step 3; Format Header	<p>Format Header Parties</p> <ul style="list-style-type: none"> • EndUserParty = Printer; • BuyerParty = Publisher; • SupplierParty = Supplier B <p>Reference the JobNumber, PubNumber and PubName printed by including each in UsageHeaderReference</p> <p>Specify the ReportingPeriod of Issue Date of the Magazine</p>
Step 4; Format Itemised Usage Line Item	<p>UsageLineItemNumber is set to 1</p> <p>UsageReference is used to specify the Form Type of "AD" for Advanced; other values for Form Type are "CO" for Cover and "CU" for Current</p> <p>LocationParty is set to the Printer Location or printing plant</p> <p>ItemisedUsageLineItem is used to report the detail reels</p>

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	consumed
	Product is not required since detail reel identifiers are included
	PurchaseOrderInformation is left blank
	Quantity is the used to record the total quantity consumed, 20,150 Pounds; the QuantityType is set to "GrossWeight" and the QuantityTypeContext is "Consumed"
	InformationalQuantity is used to record the Spoilage; for example 5 lbs Waste Core; the QuantityType is set to "GrossWeight" and the QuantityTypeContext is "Core"
	InformationalQuantity is used to record the 1 Paper Caused Web Break; the QuantityType is "Count"; the QuantityTypeContext is WebBreaks PaperCaused
Step 5; Format Itemised Usage Line Item Details; Fully Consumed Reels	Usage Status for the fully consumed reels are marked with a UsageStatus of Consumed
	The ItemType is ReelItem; the Identifier specifies the Reel Number
	Quantity is the GrossWeight Consumed; this Quantity is the full weight of the reel
	For those reels that have paper caused web breaks, InformationalQuantity is used to record the 1 Paper Caused Web Break; the QuantityType is "Count"; the QuantityTypeContext is WebBreaks PaperCaused
Step 6; Format Itemised Usage Line Item Details; Partially Consumed Reels	Usage Status for the partially consumed but still useable reels are marked with a UsageStatus of UsableButt
	The ItemType is ReelItem; the Identifier specifies the Reel Number
	Quantity is the GrossWeight Consumed; this Quantity is that part of the reel that was consumed for this job
Results	<p>The Publisher ERP System is updated reducing the detail inventory.</p> <ul style="list-style-type: none"> • Fully consumed reels are removed from the inventory. • Partially consumed reels have the quantity consumed (150 pounds in the example) subtracted from the amount available • The Publisher ERP System charges the Usage to the Magazine printed by issue date.

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	The Publisher ERP System is updated to record Spoilage and Paper Caused Web Breaks
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Usage Documentation

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Scenario D

Message	Usage
Business Scenario	<p>An EndUserParty(Printer) reports Itemised Usage to a BuyerParty (Publisher) for the printing of a magazine; paper from multiple Suppliers has been consumed. The EndUserParty (Printer) also shares Aggregated Usage with those Suppliers whose paper was consumed.</p> <pre> sequenceDiagram participant Printer as Printer : BuyerParty participant Supplier as : SupplierParty Printer->>Supplier: Receive Usage() Supplier-->>Printer: BusinessAcknowledgement </pre>
Step 1; Agreement	<p>The Printer and the Publisher have an agreement where consumption is reported at end of each job number. Consumption is reported to the Publisher at the detail reel level. A separate Usage message is sent for each Supplier whose paper is consumed. The Printer also sends an Aggregated Usage message to any Suppliers whose paper has been consumed. This supports Vendor Managed Inventory.</p>
Step 2; Detail Scenario	<p>11,500 kilograms have been consumed in the printing of a magazine. 7 full reels or 7000 kilograms are from Supplier C. 4 full reels and 1 partial reels or 4500 kilograms are from Supplier D.</p> <p>The Printer sends 2 Itemised Usage documents, 1 for Supplier C and 1 for Supplier D, to the Publisher within an agreed upon time after end of job.</p> <p>The Printer sends an Aggregated Usage document to Supplier C.</p> <p>The Printer sends an Aggregated Usage document to Supplier D.</p>
Step 3; Message to Publisher concerning Supplier C Paper; Detailed reporting	
Format Header	<p>Format Header Parties</p> <ul style="list-style-type: none"> • EndUserParty = Printer; • BuyerParty = Publisher; • SupplierParty = Supplier C <p>Reference the JobNumber, Magazine Code and Magazine Title printed by including each in UsageHeaderReference</p>

Usage Documentation

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	Specify the ReportingPeriod of Issue Date of the Magazine
Format Itemised Usage Line Item; Line 1	UsageLineItemNumber is set to 1
	LocationParty is set to the Printer Location or printing plant
	ItemisedUsageLineItem is used to report the detail reels consumed
	Product is not required since detail reel identifiers are included
	PurchaseOrderInformation is left blank
Format Itemised Usage Line Item Details; Fully Consumed Reels	Usage Status for the fully consumed reels are marked with a UsageStatus of Consumed
	The ItemType is ReelItem; the Identifier specifies the Reel Number
	Quantity is the GrossWeight Consumed; this Quantity is the full weight of the reel
Step 4; Message to Publisher concerning Supplier D Paper; Detailed reporting	
Format Header	Format Header Parties <ul style="list-style-type: none"> • EndUserParty = Printer; • BuyerParty = Publisher; • SupplierParty = Supplier D
	Reference the JobNumber, Magazine Code and Magazine Title printed by including each in UsageHeaderReference
	Specify the ReportingPeriod of Issue Date of the Magazine
Format Itemised Usage Line Item; Line 1	UsageLineItemNumber is set to 1
	LocationParty is set to the Printer Location or printing plant
	ItemisedUsageLineItem is used to report the detail reels consumed
	Product is not required since detail reel identifiers are included
	PurchaseOrderInformation is left blank
Format Itemised Usage Line Item Details; Fully Consumed Reels	Usage Status for the fully consumed reels are marked with a UsageStatus of Consumed
	The ItemType is ReelItem; the Identifier specifies the Reel Number
	Quantity is the GrossWeight Consumed; this Quantity is the full weight of the reel

Usage Documentation

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Format Itemised Usage Line Item Details; Partially Consumed Reels	Usage Status for the partially consumed reels are marked with a UsageStatus of UsableButt
	The ItemType is ReelItem; the Identifier specifies the Reel Number
	Quantity is the GrossWeight Consumed; this Quantity is that part of the reel that was consumed for this job
Step 5; Message to Supplier C concerning their paper; aggregated reporting Format Header	Format Header Parties <ul style="list-style-type: none"> • EndUserParty = Printer; • BuyerParty = Publisher; • SupplierParty = Supplier D
	Reference the JobNumber, Magazine Code and Magazine Title printed by including each in UsageHeaderReference
	Specify the ReportingPeriod of Issue Date of the Magazine
Format Aggregated Line Item	UsageLineNumber is set to 1
	LocationParty is set to the Printer Location or printing plant
	AggregatedUsageLineItem is used to report total quantity consumed
	Product refers to ProductIdentifier for Product A
	PurchaseOrderInformation is left blank because the Vendor Managed Inventory controls replenishment
	Quantity details that 7000 kilograms GrossWeight has been consumed
Step 6; Message to Supplier D concerning there paper; aggregated reporting	
Format Header	Format Header Parties <ul style="list-style-type: none"> • EndUserParty = Printer; • BuyerParty = Publisher; • SupplierParty = Supplier D
	Reference the JobNumber, Magazine Code and Magazine Title printed by including each in UsageHeaderReference
	Specify the ReportingPeriod of Issue Date of the Magazine
Format Aggregated Line Item	UsageLineNumber is set to 1
	LocationParty is set to the Printer Location or printing plant
	AggregatedUsageLineItem is used to report total quantity consumed
	Product refers to ProductIdentifier for Product A

Usage Documentation

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	PurchaseOrderInformation is left blank because the Vendor Managed Inventory controls replenishment
	Quantity details that 4500 kilograms GrossWeight has been consumed
Results	<p>The Publisher ERP System is updated reducing the detail inventory.</p> <ul style="list-style-type: none">• Fully consumed reels are removed from the inventory.• Partially consumed reels have the quantity consumed (500 kilograms in the example) subtracted from the amount available• The Publisher ERP System charges the Usage to the Magazine printed by issue date.• The 2 Supplier ERP Systems are updated to reflect the total inventory on hand

Usage Documentation

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Scenario E

Message	Usage
Business Scenario	<p>An EndUserParty(Printer) reports Aggregated Usage on book printing utilizing both reels and sheets to a Merchant Supplier; Usage is reported against a Purchase Order.</p> <pre> sequenceDiagram participant Supplier as : SupplierParty participant Printer as Printer : BuyerParty Printer->>Supplier: Receive Usage() Supplier-->>Printer: BusinessAcknowledgement </pre>
Step 1; Agreement	<p>The Printer and the Merchant have a form of Vendor Managed Inventory where consumption is reported at end of job. If a Trade Book job prints over a number of days, the Usage message may be sent when the Trade Book run is complete. Reel and sheet usage are reported in aggregate against a Purchase Order. Via a VMI contract, the Merchant is charged with understanding what product remains at end of job and adjusting outstanding Purchase Orders quantities.</p>
Step 2; Detail Scenario	<p>Purchase Order 123 ordered 3 Order Line items that are components of the Trade Book:</p> <ul style="list-style-type: none"> • 500,000 Pounds in Reels of Order Product B for the body of the book • 5000 Sheets of Order Product C for book inserts • 5000 Pounds in Reels of Order Product D for cover stock • The complete job printed from 2001/12/05 to 2001/12/30: • 420,000 Pounds of Order Product B book body • 3700 Sheets of Order Product C book inserts • 4900 Pounds of Order Product D cover stock
	The Printer sends a Usage document to the Supplier daily
Step 3; Format Header	<p>Format Header Parties EndUserParty = Printer; BuyerParty = Printer; SupplierParty = Merchant</p>
	<p>Reference the Vendor Managed Inventory arrangement by ContractNumber by putting the ContractNumber in UsageHeaderReference with a ReferenceType of ContractNumber</p>

Usage Documentation

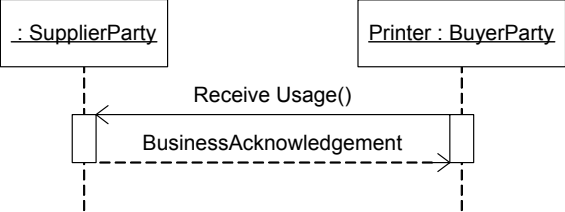
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	Specify the ReportingPeriod of 2001/12/05 to 2001/12/30
Step 4; Format Aggregated Line Item 1	UsageLineItemNumber is set to 1
	LocationParty is set to the Printer Location or printing plant
	AggregatedUsageLineItem is used to report total quantity consumed
	Product specifies Product B
	The PurchaseOrderLineItem and PurchaseOrderLineItemNumber is referenced
	The Quantity contains 420,000 Pounds GrossWeight consumed
Step 5; Format Aggregated Line Item 2	UsageLineItemNumber is set to 2
	LocationParty is set to the Printer Location or printing plant
	AggregatedUsageLineItem is used to report total quantity consumed
	Product specifies Product C
	The PurchaseOrderLineItem and PurchaseOrderLineItemNumber is referenced
	The Quantity contains 3700 Sheets consumed
Step 6; Format Aggregated Line Item 3	UsageLineItemNumber is set to 3
	LocationParty is set to the Printer Location or printing plant
	AggregatedUsageLineItem is used to report total quantity consumed
	Product specifies Product D
	The PurchaseOrderLineItem and PurchaseOrderLineItemNumber is referenced
	The Quantity contains 4900 Pounds GrossWeight consumed
Results	The Supplier Business Application is updated reducing the aggregate inventory

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Scenario F

Message	Usage
Business Scenario	<p>An EndUser (Printer) of text books reports Aggregated Usage of reels and sheets; Usage is reported weekly to the Supplier in support of a standing Purchase Order replenishment arrangement; Usage is reported monthly aggregated to the Publisher</p>  <pre> sequenceDiagram participant Printer as Printer : BuyerParty participant Supplier as : SupplierParty Printer->>Supplier: Receive Usage() Supplier-->>Printer: BusinessAcknowledgement </pre>
Step 1; Agreement	<p>The Printer and the Supplier have a form of Vendor Managed Inventory where consumption is reported for reels and sheets weekly. The Printer and Supplier have a Standing Purchase Order wherein replenishment occurs if inventory levels fall below the agreed upon quantity. The Printer also reports aggregated reel and sheet Usage to the Publisher monthly.</p>
Step 2; Detail Scenario	<p>Weekly Usage in December, 2001</p> <ul style="list-style-type: none"> • Week 1: <ul style="list-style-type: none"> ◇ 130,000 sheets of Order Product M, Purchase Order 234, line 1 ◇ 400,000 pounds of Order Product N, Purchase Order 234, line 2 • Weeks 2,3,4 of month <ul style="list-style-type: none"> ◇ 240,000 sheets of Order Product M, Purchase Order 234, line 1 ◇ 700,000 pounds of Order Product N, Purchase Order 234, line 2 • Monthly Usage Totals in December, 2001 <ul style="list-style-type: none"> ◇ 370,000 sheets of Order Product M, Purchase Order 234, line 1 ◇ 1,100,000 pounds of Order Product N, Purchase Order 234, line 2
Step 3; Report to Supplier	<p>The Printer sends a Usage document to the Supplier weekly; December week one is given as an example</p>
Format Header	<p>Format Header Parties</p> <ul style="list-style-type: none"> • EndUser = Printer; • BuyerParty = Publisher;

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	<ul style="list-style-type: none"> • SupplierParty = Supplier
	Reference the Vendor Managed Inventory arrangement by ContractNumber by putting the ContractNumber in UsageHeaderReference with a ReferenceType of ContractNumber
	Specify the ReportingPeriod of Date From/ Date To specifying the first week in December
Format Aggregated Line 1	UsageLineItemNumber is set to 1
	LocationParty is set to the Printer Location or printing plant
	AggregatedUsageLineItem is used to report total quantity consumed
	Product specifies Product M
	The PurchaseOrderLineItem and PurchaseOrderLineItemNumber are referenced; Purchase Order 234, line 1
	The Quantity contains 130,000 Sheets consumed
Format Aggregated Line 2	UsageLineItemNumber is set to 2
	LocationParty is set to the Printer Location or printing plant
	AggregatedUsageLineItem is used to report total quantity consumed
	Product specifies Product N
	The PurchaseOrderLineItem and PurchaseOrderLineItemNumber are referenced; Purchase Order 234, line 2
	The Quantity contains 400,000 Pounds GrossWeight consumed
Step 4; Report to Publisher	The Printer sends a Usage document to the Publisher monthly
Format Header	Format Header Parties <ul style="list-style-type: none"> • EndUserParty = Printer; • BuyerParty = Publisher; • SupplierParty = Supplier
	Reference the Vendor Managed Inventory arrangement by ContractNumber by putting the ContractNumber in UsageHeaderReference with a ReferenceType of ContractNumber
	Specify the ReportingPeriod of Date From/ Date To specifying

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	the full month of December
Format Aggregated Line 1	UsageLineItemNumber is set to 1
	LocationParty is set to the Printer Location or printing plant
	AggregatedUsageLineItem is used to report total quantity consumed
	Product specifies Product M
	The PurchaseOrderLineItem and PurchaseOrderLineItemNumber are referenced; Purchase Order 234, line 1
	The Quantity contains 370,000 Sheets consumed
Format Aggregated Line 2	UsageLineItemNumber is set to 2
	LocationParty is set to the Printer Location or printing plant
	AggregatedUsageLineItem is used to report total quantity consumed
	Product specifies Product N
	The PurchaseOrderLineItem and PurchaseOrderLineItemNumber are referenced; Purchase Order 234, line 2
	The Quantity contains 1,100,000 Pounds GrossWeight consumed
Results	The Supplier Business Application is updated reducing the aggregate inventory
	The Publisher Business Application is updated reducing the aggregate inventory

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Scenario G

Message	Usage
Business Scenario	<p>Replacement of a Usage message</p> <pre> sequenceDiagram participant Supplier as : SupplierParty participant Printer as Printer : BuyerParty Printer->>Supplier: Usage activate Supplier Supplier->>Printer: BusinessAcknowledgement deactivate Supplier Printer->>Supplier: Receive Replacement Usage Message() activate Supplier Supplier->>Printer: BusinessAcknowledgement deactivate Supplier </pre>
Step 1; Agreement	The EndUserParty (Printer) and the Supplier have a form of Vendor Managed Inventory where consumption is reported for Aggregate Usage daily.
Step 2; Detail Scenario	The EndUserParty (Printer) has sent a Usage message, UsageNumber 345678, to a Supplier. This message erroneously reported that 400,000 pounds of a Product had been consumed on a particular day. This report needs to be corrected in UsageNumber456789; it should have been 300,000 pounds.
Step 3; Format Header	<p>Format Header Parties</p> <ul style="list-style-type: none"> • ConsumingParty = Printer; • BuyerParty = Printer; • SupplierParty = Supplier <p>Set the UsageStatusType to Replaced</p> <p>Specify the OriginalUsageNumber of 345678 in UsageHeaderReference</p>
Step 4; Format Aggregated Line Item	<p>UsageLineItemNumber is set to 1; this content should be the corrected usage</p> <p>LocationParty is set to the Printer Location or printing plant</p> <p>AggregatedUsageLineItem is used to report total quantity consumed</p> <p>Product refers to ProductIdentifier for Product A</p> <p>PurchaseOrderInformation is left blank because the Vendor Managed Inventory controls replenishment</p> <p>Quantity details that 300,000 Pounds GrossWeight has been consumed</p>
Results	The Supplier ERP system backs out the original erroneous 400,000 pounds of usage reported on Usage message

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	<p>345678. The Supplier ERP System processes the replacement Usage message, 456789, and reduces the total inventory for Product A at a particular Printer Location by 300,000 pounds.</p>
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Scenario H

Message	Usage
Business Scenario	<p>Cancellation of a Usage message</p> <pre> sequenceDiagram participant Supplier as : SupplierParty participant Printer as Printer : BuyerParty Printer->>Supplier: Receive Usage() Supplier-->>Printer: BusinessAcknowledgement Printer->>Supplier: Receive Cancelled Usage() Supplier-->>Printer: BusinessAcknowledgement </pre>
Step 1; Agreement	The EndUserParty (Printer) and the Supplier have a form of Vendor Managed Inventory where consumption is reported for Aggregate Usage daily.
Step 2; Detail Scenario	The EndUserParty (Printer) has sent a Usage message, UsageNumber 56789, to a Supplier. This message erroneously reported that 900,000 pounds of a Product had been consumed on a particular day.
Step 3; Format Header	<p>Format Header Parties</p> <ul style="list-style-type: none"> • ConsumingParty = Printer; • BuyerParty = Printer; • SupplierParty = Supplier <p>Set the UsageStatusType to Cancelled</p> <p>Specify the OriginalUsageNumber of 56789 in UsageHeaderReference</p>
Step 4; Format Aggregated Line Item	<p>UsageLineItemNumber is set to 1; this content should be the corrected usage</p> <p>LocationParty is set to the Printer Location or printing plant</p> <p>AggregatedUsageLineItem is used to report total quantity consumed</p> <p>Product refers to ProductIdentifier for Product A</p> <p>PurchaseOrderInformation is left blank because the Vendor Managed Inventory controls replenishment</p> <p>Quantity details that 0 Pounds GrossWeight has been consumed</p>
Results	The Supplier ERP system backs out the original erroneous 900,000 pounds of usage reported on Usage message 56789.