

papiNet

Usage

papiNet Standard - Version 2.31

Documentation

Global Standard for the Paper and Forest Products Supply Chain

> Build V2R31_20160407 Date 2016-05-06

Production Release

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Usage Documentation

Usage e-Document Overview

The Usage e-Document is used to notify a supplier or buyer that material has been consumed within the end user's manufacturing process. The Usage e-Document 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-use arrangement. The Usage e-Document 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 e-Document can also be used to help monitor physical inventory.

Prior to implementing a Usage e-Document 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 e-Documents, 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 e-Document

The Usage e-Document 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 e-Documents, such as the InventoryChange e-Document.

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.

e-Document Types

This e-Document has no special types associated with it.

Business Rules for Usage

General Business Rules

The following table lists the business rules that apply to a Usage e-Document.

Identifier	Business 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.
USG002	Each aggregated Usage line item must contain a quantity specifying the amount of product consumed.

Identifier	Business Rule
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 e-Document 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 e-Document is to be sent to a supplier, it can only include consumption of product from that supplier. There is only one SupplierParty per e-Document, so if there were more than one supplier for the Usage reporting, there would be separate e-Documents.
USG009	If the reporting party wants to cancel a previously sent Usage e-Document it can do so by resending the e-Document with a Usage status type of cancelled. The 'cancel' e-Document must reference the original Usage number in the header reference.
USG010	If the reporting party wants to replace a previously sent Usage e-Document it can do so by sending a new e-Document with a Usage status type of replaced. The 'replace' e-Document 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 in aggregate at the Usage line item and in detail at the Usage line item detail level.

Additional Information for Usage e-Document

Aggregated consumption is reported as a total quantity of a product consumed or, itemised consumption where individual item identifiers identify 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 e-Document is triggered at a stripping station.

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

- full reel consumed
- part of reel consumed (weight?)
- part of reel consumed and rest unusable (weight?)
- press rejected

The trigger point that causes the e-Document 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 e-Document.

Each Usage e-Document 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 e-Document. 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.

Understanding the Diagrams and Content

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

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

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

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

• Content Model and Cardinality operate together to determine if the element or attribute are required in the instance document.

• The same attribute can never appear multiple times in the same element so, you will never see a multiple cardinality indicator.

Content model indicators:

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

• (sequence)

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

• (choice)

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

(all)

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

Cardinality indicators:

Dotted line around element or attribute.

A single instance of the item can optionally exist.

Dotted line around item with range indicated below.

Multiple instances of the item can optionally exist.

· Solid line around item.

A single instance of the item must exist.

Solid line around item with range indicated below

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

Datatype indication:

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

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

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

- When the content is textual/numeric in nature "three straight horizontal lines" will appear in the upper left-hand corner of the graphic. Pay attention to these elements because they are where you will be entering your information.
- When the content is made up of additional elements and/or attributes a "gray-box" will appear on the right-hand side of the graphic.
- If the graphic shows both the horizontal lines and the gray-box then, in the papiNet standard, the content below the element are attributes.

Usage Root Element

Usage

The Usage element is the root element for the Usage e-Document.

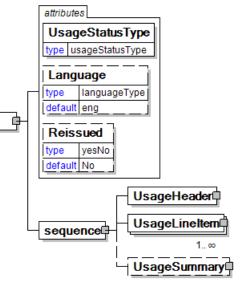
The Usage e-Document is used to notify a supplier or buyer that material has been consumed within the end user's manufacturing process.

UsageStatusType [attribute]

UsageStatusType is mandatory. A single instance is required.

Identifies the status of the entire Usage e-Document

This item is restricted to the following list.



Cancelled

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

Original

The supplied information is the first version of that information.

Replaced

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

Language [attribute]

Language is optional. A single instance might exist.

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

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

- http://www.w3.org/International/O-HTML-tags.html provides an explanation of the errata updating XML.
- http://www.ietf.org/rfc/rfc3066.txt is the key document that is referenced in the above errata.

Reissued [attribute]

Reissued is optional. A single instance might exist.

Either "Yes" or "No".

This item is restricted to the following list.

Yes

No

(sequence)

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

UsageHeader

UsageHeader is mandatory. A single instance is required.

Information that is common to the entire Usage e-Document.

UsageLineItem

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

The details of the Usage e-Document.

UsageSummary

UsageSummary is optional. A single instance might exist.

The root element of the Usage e-Document.

Primary Elements

UsageHeader

Information that is common to the entire Usage e-Document.

(sequence)

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

UsageNumber

UsageNumber is mandatory. A single instance is required.

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

UsageHeaderReference

UsageHeaderReference is optional. Multiple instances might exist.

UsageHeader Sequence seque

An element that details relevant references to

the Usage Header. The content of the UsageHeaderReference is identified by the UsageReferenceType attribute.

UsageIssuedDate

UsageIssuedDate is mandatory. A single instance is required.

Identifies the Date and Time when the Usage information has been reported.

TransactionHistoryNumber

TransactionHistoryNumber is optional. A single instance might exist.

A sequential number that keeps track of the version $0..\infty$ of a document being sent by the document originator except in the case where TransactionHistoryConfirmation is used, in which case the

TransactionHistoryNumber refers to the trigger transaction for which the confirmation is being sent.

TimePeriod

TimePeriod is optional. A single instance might exist.

The TimePeriod element is used to communicate a duration period of time as indicated in PeriodType.

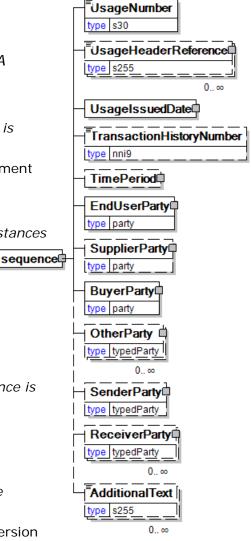
EndUserParty

EndUserParty is mandatory. A single instance is required.

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.

SupplierParty

SupplierParty is optional. A single instance might exist.



The organisation or business entity responsible for providing the product. SupplierParty is also the seller of the product, if Seller is not specified as OtherParty = Seller.

BuyerParty

BuyerParty is mandatory. A single instance is required.

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

OtherParty

OtherParty is optional. Multiple instances might exist.

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

SenderParty

SenderParty is optional. A single instance might exist.

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

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

ReceiverParty

ReceiverParty is optional. Multiple instances might exist.

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

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

AdditionalText

AdditionalText is optional. Multiple instances might exist.

A text field that is used to communicate information not previously defined or for special instructions. To be used only for circumstances not covered by specific elements.

UsageLineItem

The details of the Usage e-Document.

(sequence)

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

UsageLineItemNumber

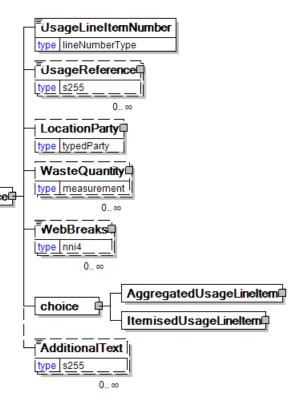
UsageLineItemNumber is mandatory. A single instance is required.

A sequential number that uniquely identifies the Usage line item.

UsageReference

UsageReference is optional. Multiple instances might exist.

A repeatable element that details relevant references pertaining to the Usage. The content of the UsageReference is identified by UsageReferenceType.



LocationParty

LocationParty is optional. A single instance might exist.

The organization or business entity where the business event took place or will take place.

WasteQuantity

WasteQuantity is optional. Multiple instances might exist.

The quantity of product wasted.

WebBreaks

WebBreaks is optional. Multiple instances might exist.

The number of web breaks.

(choice)

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

AggregatedUsageLineItem

AggregatedUsageLineItem is mandatory. A single instance is required.

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.

ItemisedUsageLineItem

ItemisedUsageLineItem is mandatory. A single instance is required.

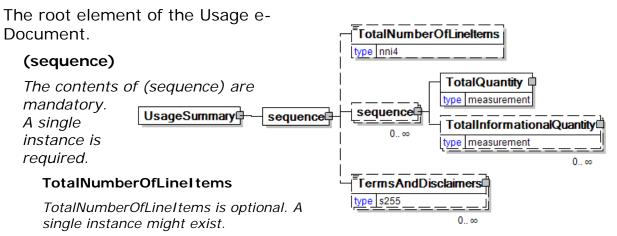
A group item containing information that relates to an itemized amount of usage.

AdditionalText

AdditionalText is optional. Multiple instances might exist.

A text field that is used to communicate information not previously defined or for special instructions. To be used only for circumstances not covered by specific elements.

UsageSummary



The total number of individual line items in the document, regardless of the status or type.

(sequence)

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

TotalQuantity

TotalQuantity is mandatory. A single instance is required.

The total quantity of similar items in the business document. TotalQuantity is primarily used in the summary section of documents where it is repeatable to permit totaling for different units of measure.

TotalInformationalQuantity

TotalInformationalQuantity is optional. Multiple instances might exist.

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

TermsAndDisclaimers

TermsAndDisclaimers is optional. Multiple instances might exist.

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

Usage Business Scenarios

Usage Scenario Listing

sage Scenario	<u> </u>
Scenario A	A ConsumingParty (Printer) reports Aggregate Usage to a Supplier for an Order Product at end of day
Scenario B	A ConsumingParty (Converter), which converts reels into finished product, reports itemised usage to a Supplier; Reels are considered fully consumed once they are stripped.
Scenario C	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.
Scenario D	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.
Scenario E	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.
Scenario F	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.
Scenario G	Replacement of a Usage e-Document.
Scenario H	Cancellation of a Usage e-Document.

Sc<u>enario A</u>

e-Document	Usage
Scenario	An EndUserParty (Printer) reports Aggregated Usage to a Supplier for an Order Product at end of day.
Agreement	The Printer and the Supplier have a form of

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	Vendor Managed Inventory where consumption is reported daily. If quantities on hand go below a specified level, the Supplier replenishes the Printer Location.
Example	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
Header	 Format Header Parties EndUserParty = Printer BuyerParty = Printer 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 20011107
Line Item	UsageLineItemNumber is set to 1 LocationParty is set to the converter plant. AggregatedUsageLineItem is used to report the product consumed PurchaseOrderInformation is left blank because the Vendor Managed Inventory controls replenishment.
Results	The Supplier ERP System reduces the total inventory for Product A at a particular Printer Location. If inventory is less than the replenishment level, agreed upon replenishment takes place.

Scenario B

e-Document	Usage
Scenario	An EndUserParty (Converter), converts reels into finished product, reports Itemised Usage to a Supplier; Reels are considered fully Consumed once they are stripped.
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.
Example	10 full reels have been consumed, 2000 pounds

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	each. • The Converter sends a Usage document to the
Header	Supplier daily. Usage Header Parties • EndUser = Converter • BuyerParty = Converter • SupplierParty = Supplier B • Specify usage date in the ReportingPeriod.
Line Item	Itemised Usage Line Item UsageLineItemNumber is set to 1 LocationParty is set to the converter plant ItemisedUsageLineItem is used to report the detail reels consumed Product is not required since detail reel identifiers are included PurchaseOrderInformation is left blank
Details	 Itemised Usage Line Item Details; Fully Consumed Reels Usage Status for the fully consumed reels are marked with a UsageStatus of Consumed The IdentifierType is Reel; the Identifier specifies the Reel Number Quantity is the GrossWeight Consumed; this Quantity is the full weight of the reel
Results	 The Supplier ERP System is updated reducing the number of reels on hand. Fully consumed reels are removed from the inventory if re-supply levels are reached, the Supplier will deliver additional reels.

Sc<u>enario</u> C

e-Document	Usage
Scenario	An EndUserParty(Printer) reports Itemised Usage to a BuyerParty (Publisher) for the printing of a magazine; a single Supplier's Paper has been consumed.
Agreement	The Printer and the Publisher have an agreement where consumption is reported at end of each job. 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

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	level.
Example	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. • The Printer sends a Usage document to the Publisher within an agreed upon time after the end of the job.
Header	 Format Header Parties ConsumingParty = Printer; BuyerParty = Publisher; SupplierParty = Supplier B Reference the JobNumber, PubNumber, and PubName printed by including each in UsageHeaderReference
Line Item	 UsageLineItemNumber is set to 1 UsageReference is used to specify the FormType of "AD" for Advanced; other values for Form Type are "CO" for Cover, and "CU" for Current 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 Quantity is used to record the total quantity consumed, 20,150 pounds. The QuantityType is set to "GrossWeight".
Details	Itemised Usage Line Item Details; Fully Consumed Reels • Usage Status for the fully consumed reels are marked with a UsageStatus of Consumed • The IdentifierType is Reel; the Identifier specifies the Reel Number

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	 Quantity is the GrossWeight Consumed; this Quantity is the full weight of the reel For those reels that have a paper caused web break, InformationalQuantity is used to record the 1 Paper Caused Web Break, the QuantityType is "Count", and the QuantityTypeContext is "WebBreaks PaperCaused".
Details	 Itemised Usage Line Item Details; Partially Consumed Reels UsageStatus 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 GrossWeight Consume, this Quantity is that part of the reel that was consumed for this job.
Results	 The Publisher ERP System is updated reducing the detail inventory. 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. The Publisher ERP System is updated to record Spoilage and Paper Caused Web Breaks.

Scenario D

e-Document	Usage
Scenario	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.
Agreement	The Printer and the Publisher have an agreement where consumption is reported at end of each job number. Consumption is reported to the Publisher

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	at the detail reel level. A separate Usage e- Document is sent for each Supplier whose paper is consumed. The Printer also sends an Aggregated Usage e-Document to any Suppliers whose paper has been consumed. This supports Vendor Managed Inventory.
Example	 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. 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. The Printer sends an Aggregated Usage document to Suppler C. The Printer sends an Aggregated Usage document to Supplier D.
Part 1.	e-Document to Publisher concerning Supplier C Paper; Detailed reporting.
Header	 Format Header Parties EndUserParty = Printer BuyerParty = Printer SupplierParty = Supplier C Reference the JobNumber, Magazine Code, and Magazine Title printed and IssueDate by including each in UsageHeaderReference. Specify the UsageIssueDate.
Line Item	 Aggregated Line Item 1 UsageLineItemNumber is set to 1 LocationParty is set to the Printer Location or printing plant ItemisedUsageLineItem is used to report detail reels consumed Product is not required since detail reel identifiers are included. PurchaseOrderInformation is left blank.
Details	Itemised Usage Line Item Details; Fully Consumed Reels • Usage Status for the fully consumed reels are

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	 marked with a UsageStatus of "Consumed". The ItemType is ReelItem; the Identifier specifies the Reel ID. Quantity is the GrossWeight Consumed; this Quantity is the full weight of the reel.
Step 2.	e-Document to Publisher concerning Supplier D Paper; Detailed reporting
Header	 Format Header Parties EndUserParty = Printer BuyerParty = Printer SupplierParty = Supplier D Reference the JobNumber, Magazine Code, and Magazine Title printed by including each in UsageHeaderReference. Specify the Reporting Period of Issue Date of the Magazine.
Line Item	 Itemised Usage Line Item; Line 1 UsageLineItemNumber is set to 1 ItemisedUsageLineItem is used to report the detail reels consumed. Product is not required since detail reel identifier are included PurchaseOrderInformation is left blank.
Details	 Itemised Usage Line Item Details; Fully Consumed Reels Usage Status for the fully consumed reels is 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.
Details	 Itemised Usage Line Item Details; Partially Consumed Reels Usage Status for the partially consumed reels is 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 3	e-Document to Supplier C concerning their paper;

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	aggregated reporting
Header	 Format Header Parties EndUserParty = Printer BuyerParty = Printer SupplierParty = Supplier C Reference the JobNumber, Magazine Code, and Magazine Title printed by including each in UsageHeaderReference. Specify the Reporting Period of Issue Date of the Magazine.
Line Item	 Aggregated Line Item UsageLineItemNumber is set to 1 LocationParty is set to the Printer Location or printing plant. Product refers to ProductIdentifier for Product A. PurchaseOrderInformation is left blank because the Vendor Managed Inventory controls replenishment. Quantity details that 7000 pounds GrossWeight has been consumed.
Step 4	e-Document to Supplier D concerning their paper; aggregated reporting.
Header	 Format Header Parties EndUserParty = Printer BuyerParty = Printer SupplierParty = Supplier D Reference the JobNumber, Magazine Code, and Magazine Title printed by including each in UsageHeaderReference. Specify the Reporting Period of Issue Date of the Magazine.
Line Item	 Aggregated Line Item UsageLineItemNumber is set to 1 LocationParty is set to the Printer Location or printing plant. Product refers to ProductIdentifier for Product A. PurchaseOrderInformation is left blank because the Vendor Managed Inventory controls replenishment. Quantity details that 4500 pounds

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		GrossWeight has been consumed.
Resul	ts	 The Publisher ERP System is updated reducing the detail inventory. 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.

Scenario E

enario E	
e-Document	Usage
Scenario	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.
Agreement	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 e-Document 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 Order Quantities.
Example	 Purchase Order 123 ordered 3 Order Line items that are components of the Trade Book: 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

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	4900 Pounds of Order Product D cover stock
Header	 Format Header Parties EndUserParty = Printer BuyerParty = Publisher SupplierParty = Merchant Reference the Vendor Managed Inventory arrangement by ContractNumber by putting the ContractNumber in UsageHeaderReference with a ReferenceType of ContractNumber Specify the ReportingPeriod of 2001/12/05 to 2001/12/30.
Line Item	 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 refers to ProductIdentifier for Product B. The PurchaseOrderLineItem and PurchaseOrderLineItemNumber are referenced. Quantity details that 420,000 pounds GrossWeight has been consumed.
Line Item	 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 refers to ProductIdentifier for Product C. The PurchaseOrderLineItem and PurchaseOrderLineItemNumber are referenced. Quantity details that 3700 Sheets have been consumed.
Line Item	 Aggregated Line Item 3 UsageLineItemNumber is set to 3 LocationParty is set to the Printer Location or printing plant.

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	 AggregatedUsageLineItem is used to report total quantity consumed. Product refers to ProductIdentifier for Product D. The PurchaseOrderLineItem and PurchaseOrderLineItemNumber are referenced. Quantity details that 4900 pounds GrossWeight have been consumed.
Results	The Supplier Business Application is updated reducing the aggregate inventory

Scenario F

enano i	
e-Document	Usage
Scenario	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.
Agreement	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.
Example	 Weekly Usage in December, 2001 Week 1 130,000 Sheets of Order Product M, Purchase Order 234, Line 1 400,000 Sheets of Order Product N, Purchase Order 234, Line 2 Week 2, 3, and 4 of month 240,000 Sheets of Order Product M, Purchase Order 234, Line 1 700,000 Sheets of Order Product N, Purchase Order 234, Line 2
	Monthly usage totals in December, 2001 • 370,000 Sheets of Order Product M, Purchase Order 234, Line 1 • 1,100,000 Sheets of Order Product N, Purchase

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	Order 234, Line 2	
Report to Supplier	The Printer sends a Usage document to the Supplier weekly; December week one is given as an example	
Header	 Format Header Parties 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 the first week in December 	
Line Item	 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 refers to ProductIdentifier for Product M. The PurchaseOrderLineItem and PurchaseOrderLineItemNumber is referenced, PurchaseOrder 234, Line 1. Quantity details that 130,000 pounds GrossWeight has been consumed. 	
Line Item	 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 refers to ProductIdentifier for Product N. The PurchaseOrderLineItem and PurchaseOrderLineItemNumber is referenced, PurchaseOrder 234, Line 2. Quantity details that 400,000 Pounds GrossWeight have been consumed. 	
Report to	The Printer sends a Usage document to the	

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Publisher	Publisher monthly.
Header	 Format Header Parties 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 the full month of December
Line I tem	 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 refers to ProductIdentifier for Product M. The PurchaseOrderLineItem and PurchaseOrderLineItemNumber is referenced, PurchaseOrder 234, Line 1. Quantity details that 370,000 pounds GrossWeight has been consumed.
Line Item	 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 refers to ProductIdentifier for Product N. The PurchaseOrderLineItem and PurchaseOrderLineItemNumber is referenced, PurchaseOrder 234, Line 2. Quantity details that 1,100,000 Pounds GrossWeight have been 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

e-Document	Usage
Scenario	Replacement of a Usage e-Document
Agreement	The EndUserParty (Printer) and the Supplier have a form of Vendor Managed Inventory where consumption is reported for Aggregate Usage daily.
Example	The EndUserParty (Printer) has sent a Usage e-Document, UsageNumber 345678, to a Supplier. This e-Document 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
Header	Format Header ConsumingParty = Printer BuyerParty = Printer SupplierParty = Supplier Set the UsageStatusType to Replaced Specify the OriginalUsageNumber of 345678 in UsageHeaderReference
Line Item	 UsageLineItemNumber is set to 1, this content should be the corrected usage. 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 300,000 Pounds GrossWeight has been consumed.
Results	The Supplier ERP system backs out the original erroneous 400,000 pounds of usage reported on Usage e-Document 345678. The Supplier ERP System processes the replacement Usage e-Document, 456789, and reduces the total inventory for Product A at a particular Printer Location by 300,000 pounds.

Sc<u>enario</u> H

e-Document	Usage
Scenario	Cancellation of a Usage e-Document
Agreement	The EndUserParty (Printer) and the Supplier have a form of Vendor Managed Inventory where consumption is reported for Aggregate Usage daily.
Example	The EndUserParty (Printer) has sent a Usage e- Document, UsageNumber 56789, to a Supplier. This e-Document erroneously reported that 900,000 pounds of a Product had been consumed on a particular day.
Header	 Format Header ConsumingParty = Printer BuyerParty = Printer SupplierParty = Supplier Set the UsageStatusType to Cancelled Specify the OriginalUsageNumber of 56789 in UsageHeaderReference
Line Item	 UsageLineItemNumber is set to 1, this content should be the corrected usage. 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 0 Pounds GrossWeight has been consumed.
Results	The Supplier ERP system backs out the original erroneous 900,000 pounds of usage reported on Usage e-Document 56789.