



papiNet

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

Book PurchaseOrder Documentation

papiNet Standard - Version 2.20

January 2004

papiNet Standard - Version 2.20

Book PurchaseOrder Documentation

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Message Documentation

The Purchase Order Message

Introduction

This document is designed for use within the Book Manufacturing Industry, consisting of publishers, printers, and component suppliers including paper. It is based upon the standard papiNet Purchase Order message document, but customized to fit the Book Manufacturing Industry usage of the message. It will be useful to become acquainted with certain papiNet documents such as the Data Dictionary and Business Process. These can be found at the papiNet site, <http://www.papinet.org>.

Whether to use the Book specific purchase order message or the standard papiNet message, which was designed for paper purchases, will be determined by trading partner agreement.

An Overview of the Purchase Order Message

A buyer sends a purchase order message to a supplier to initiate a trade transaction. This message, which is a request for product, represents a firm commitment to buy. (For one type of purchase order, called a reservation order, the purchase order is not a firm commitment to buy.)

A purchase order may be preceded by a quotation request. It may also refer to prior agreements between the parties such as:

- A contract, which is an agreement between a buyer and a supplier that can specify price, terms and conditions, products, and quantities to be provided over a given period of time.
- A specification, which is a definition of the manufacturing requirements for a specified product.
- A blanket order, which is an agreement between a buyer and a supplier for a given period of time. A blanket order, which typically specifies a particular product, may also specify the maximum volume or amount to be spent with a supplier.

There are seven types of purchase orders. These messages can be used to specify quantities of product(s) to be purchased, release product(s) to be manufactured, order product samples, book manufacturing capacity, and confirm an order placed by fax, phone, or email.

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The Scope of Purchase Order Message

The purchase order message must include:

- Products and quantities to be delivered
- The characteristics of the product(s) requested
- Ship-to party

The purchase order message can include:

- Requested delivery date and time
- The price of the product
- Other special instructions

Using this information, the supplier can:

- Begin to plan for the manufacturing process

PurchaseOrder Message Types

There are seven types of purchase order:

- Blanket Order - An agreement between a buyer and a supplier for a given period of time.
 - ✧ A blanket order, which typically specifies a particular product, may also specify the maximum volume or amount to be spent with a supplier
- Confirming order
 - ✧ Sent by the buyer to confirm an order originally conveyed to the supplier via a means such as fax, phone, or email
 - ✧ May include a supplier-supplied reference such as a confirmation number
- Consumption Order
 - ✧ Used in conjunction with a previously agreed upon order, typically a Blanket order.
 - ✧ Must contain reference to the previously agreed to order in the purchase order reference.
- Release order
 - ✧ Used in conjunction with a previously agreed upon order.
 - ✧ Must contain reference to the previously agreed to order in the purchase order reference.
 - ✧ Purchase order release number must be incremented as necessary.
 - ✧ Typically used with reservation orders.
 - ✧ Used with orders where the purchase order number does not change but only the release number changes.

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- Reservation order
 - ✧ Books capacity of the producing mill, but does not represent a firm commitment to buy
 - ✧ Indicates that the supplier is not free to produce the product(s)
- Standard order (one-time order)
 - ✧ Defines quantities for the product(s) to be purchased.
 - ✧ May define a delivery location and date (delivery schedule).
 - ✧ Indicates that the supplier is free to produce the product(s).
- Trial order
 - ✧ Used whenever a supplier has agreed to let a buyer sample a product either at a discount or for free
 - ✧ Typically covers small quantities of product(s)
 - ✧ Indicates that the supplier is free to produce the product(s)

Business Rules for Purchase Order Message

General PurchaseOrder Business Rules

The following tables list the business rules that apply to purchase orders. There are no rules that apply only to a specific purchase order message type.

Reference	Rule
ORD001	There are five types of purchase order messages: BlanketOrder, ConfirmingOrder, ConsumptionOrder, ReleaseOrder, ReservationOrder, StandardOrder, TrialOrder
ORD002	A PurchaseOrder contains one or more PurchaseOrderLineItem(s).
ORD003	A PurchaseOrderLineItem contains one product. This is specified in Product and identified in the ProductIdentifier.
ORD004	A PurchaseOrderLineItem is uniquely identified by a PurchaseOrderLineItemNumber, which is never deleted even if the PurchaseOrderLineItem is cancelled.
ORD005	A PurchaseOrderHeader can specify only one ShipToParty. The buyer can, however, specify multiple ship-to parties at the PurchaseOrderLineItem level. A PurchaseOrderLineItem ShipToParty overrides a PurchaseOrderHeader ShipToParty.
ORD006	A PurchaseOrderLineItem can specify only one ShipToParty. When a supplier needs to deliver one product to two different ship-to parties, the buyer must include two PurchaseOrderLineItem(s). Note: Both the CallOff and ShippingInstructions messages provide the capability to update ShipTo information.

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Reference	Rule
ORD007	Transport information is optional. It may appear at either the PurchaseOrderHeader or the PurchaseOrderLineItem level, depending on transport requirements. The information in the PurchaseOrderLineItem overrides the information at the PurchaseOrderHeader.
ORD008	To place a release against a contract, a blanket order, or a ReservationOrder, a buyer uses a ReleaseOrder.
ORD009	A ReleaseOrder must contain a reference to a contract, blanket order, or ReservationOrder in the PurchaseOrderInformation.

Processing the Purchase Order Message

Message processing depends on the type of purchase order and values of the three status fields used within the document: message, header, and line item. The status at the message level dictates the statuses at the header and line items levels that can be used.

At the message level, the values for the PurchaseOrderStatusType field are "Amended", "Cancelled", and "Original". The values that are available for the header and line item status fields are "Amended", "Cancelled", "New", and "NoAction".

Notes:

- The PurchaseOrderHeaderStatusType and PurchaseOrderLineItemStatusType always match the PurchaseOrderStatusType.
- The order confirmation message, sent from the supplier to the buyer in response to a purchase order, completes the purchase order messaging loop.

The buyer may resend the purchase order to the supplier with two other statuses: "Amended" or "Cancelled". An amended purchase order includes an amended header and/or line items that are amended, added, cancelled, or not changed from the previous purchase order.

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Status Values Used When Processing the PurchaseOrder Message

Level	Attribute	Value
Message	PurchaseOrder-StatusType	Original – Indicates that this is the first transmission of the message. Amended – Indicates that the buyer wants to amend the message by changing the header and/or adding, amending, or cancelling line items. Cancelled – Indicates that the buyer wants to cancel the message (and therefore the commitment between the parties).

When a buyer sends a purchase order to a seller, the PurchaseOrderStatusType at the message level has a status of "Original" and both the PurchaseOrderHeaderStatusType and PurchaseOrderLineItemStatusType are set to "New". When an item is added to an existing order the PurchaseOrderLineItemStatusType of "New" is used.

When a buyer decides to cancel an entire order the PurchaseOrderStatusType, PurchaseOrderHeaderStatusType, and PurchaseOrderLineItemStatusType will all be "Cancelled".

If a line item is cancelled the PurchaseOrderLineItemStatusType will be "Cancelled". If all line items are "Cancelled" then the order is cancelled and all statuses will indicate this. The PurchaseOrderHeaderStatusType will only be "Cancelled" when the message is "Cancelled".

When a buyer communicates order changes an "Amended" status is set at the message, the header, and the line item where the change(s) are taking place. If only one line item of a multi-line order is changed the PurchaseOrderStatusType will be "Amended" and the line item's PurchaseOrderLineItemStatusType will be "Amended". If there are particular line items of a document with an "Amended" status that have no changes the "NoAction" status will be used. If the header has no changes then the PurchaseOrderHeaderStatusType will be "NoAction".

If only one line item of a multi-line order is "Cancelled" the PurchaseOrderStatusType will be "Amended" and the associated PurchaseOrderLineItemStatusType will be "Cancelled". All other line items will have a status of "NoAction".

Book Manufacturing Industry PurchaseOrder Processing Guidelines

Reservation Order

The Book Manufacturing Industry can use the Reservation Order as a planning order to reserve manufacturing resources and material for a

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future date. It could be used either with or without a Purchase Order Number.

Please note that:

- The Purchase Order Number field is required even if one is not used, so we recommend the use of the term "PLANNING ORDER". It would then be necessary to include the ISBN and Printing Number, or other agreed upon unique identifier, in the Purchase Order Reference fields.
- An Amended ReservationOrder may be sent at any time to alter the quantity, Bound Book Date, or other fields.

Release Order

The Release Order would then be used to send the authorizing order to execute the Reservation. This order would contain the Purchase Order Number as well as the identifying fields used in the Reservation Order.

Standard Order

The Standard Order can also be used, but only for orders not preceded by a Reservation. The Standard Order should never be used if there is an outstanding Reservation as the trading partner would have no way of matching and removing the Reservation.

Confirming Order

It is also possible that trading partners could agree upon the use of the Confirming Order to authenticate an order placed by phone or fax. It will be necessary to refer to whatever identifying fields were used in the original order communication.

Blanket Order and Trial Order

While certainly possible, it is not expected that the Book Manufacturing Industry will make much use of the Trial Order, or Blanket Order.

Consumption Order

The Consumption Order could be used to consume product against a stocking program or some other arrangement where the supplier owns the material or product being ordered.

Purchase Order Elements of Particular Note to Book Manufacturing

There are a number of fields in the Purchase Order that have been augmented with Book Manufacturing Industry values or created just for Book.

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OtherDate

One such field is OtherDate, created to support a wide variety of dates, such as Bound Book Date.

PurchaseOrderReference

The Purchase Order Reference field has been enlarged to contain fields such as Title. The value list for the associated Reference Type field has been expanded to include number fields such as ISBN, Printing Number, Supplier Job Number, and descriptive fields such as Title, Author, and Imprint.

Product

New values have been added to the existing papiNet Product construct. If required for clarity purposes, there can be multiple Product entries per Line Item. This construct defines the product being ordered.

ProductIdentifier

The most important element, however, is the unique value in the ProductIdentifier. This is further modified by the Agency that says whether this unique number belongs to the Buyer or the Supplier. Since there can be multiple Product entries on a Purchase Order, it is possible to include both the buyer and supplier ProductIdentifier(s).

The Product Identifier will contain a unique identifier defined by the buyer organization. The modifying fields, Product Identifier Type and Agency, will contain the values "Book Industry Value" and "XBITS" respectively.

"Snapshot" of Product construct				
Product	Element	Required	Multiple	
ProductIdentifier	Element	Required	Multiple	Unique ID
@ProductIdentifierType	Attribute	Required	Single	"Part Number"
@Agency	Attribute	Optional	Single	"Buyer" or "Supplier"
ProductDescription	Element	Optional	Multiple	
Classification	Element	Optional	Multiple	
ClassificationCode	Element	Required	Single	Component name such as BIND
@Agency	Attribute	Optional	Single	"XBITS"
ClassificationDescription	Element	Optional	Multiple	

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ProductDescription

Product Description will contain any description desired by the buyer organization, perhaps from the Description field associated with each component specification.

Classification

The Classification construct defines the actual component. The Classification Code will contain the values for component names as defined within the Book Industry Specification message, for example "BIND". The value "XBITS" will be used for the Agency, and Classification Description is blank.

PriceDetails

Another updated construct is the PriceDetails, which can be used to define multiple cost elements. The GeneralLedgerAccount element will use the BISAC cost code values to define the lowest level of costs. One of the tenants of this message is that the supplier will define costs at the lowest, most granular, level and it is up to the receiver of the message to perform any aggregation and/or conversion to local account or cost codes.

In addition to these changes, almost all of the Book Manufacturing Industry specific requirements have also been included within the Product construct. These include the following. These constructs will be discussed in detail below.

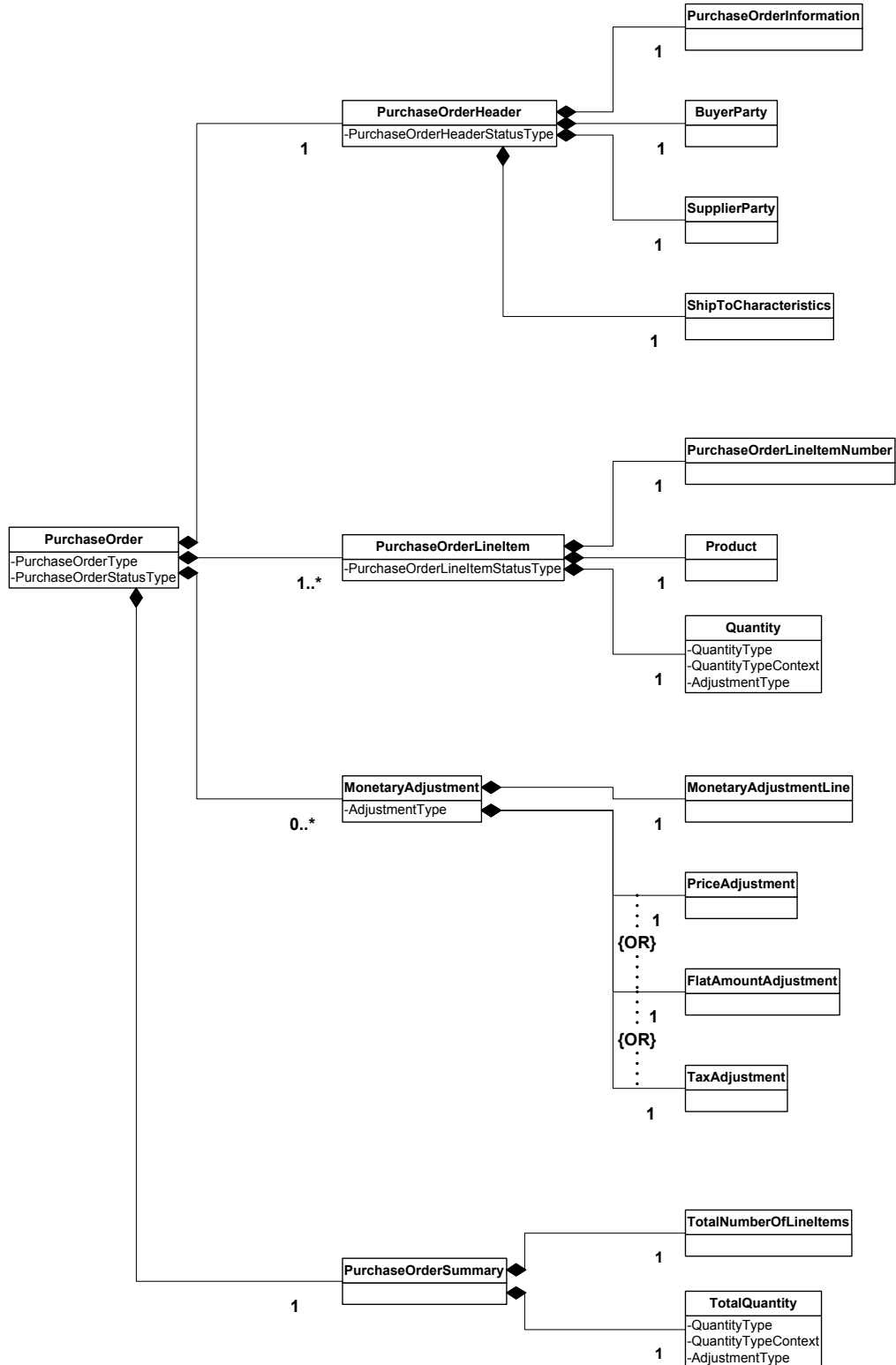
Book Manufacturing extensions to Product construct			
Product	Element	Grouping	
Book Manufacturing	Element	Optional	Grouping
Proof Informational Quantity	Element	Optional	Multiple
SuppliedComponentInformation	Element	Optional	Multiple
Packaging Characteristics	Element	Optional	Single

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Graphical Representations of the Purchase Order

High-level UML Diagram of Purchase Order



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Overview of PurchaseOrder Structure

		Type	Required	Occurrence
PurchaseOrder		Root		
	@PurchaseOrderType	Attribute	Required	Single
	@PurchaseOrderStatusType	Attribute	Required	Single
	@Reissued	Attribute	Optional	Single
	@Language	Attribute	Optional	Single
	PurchaseOrderHeader	Element	Required	Single
	@PurchaseOrderHeaderStatusType	Attribute	Required	Single
	PurchaseOrderInformation	Element	Required	Single
	TransactionHistoryNumber	Element	Optional	Single
	BuyerParty	Element	Required	Single
	BillToParty	Element	Optional	Single
	SupplierParty	Element	Required	Single
	OtherParty	Element	Optional	Multiple
	SenderParty	Element	Optional	Single
	ReceiverParty	Element	Optional	Multiple
	ShipToCharacteristics	Element	Required	Single
	OtherDate	Element	Optional	Multiple
	TransportModeCharacteristics	Element	Optional	Single
	TransportVehicleCharacteristics	Element	Optional	Single
	TransportUnitCharacteristics	Element	Optional	Single
	TransportLoadingCharacteristics	Element	Optional	Single
	TransportOtherInstructions	Element	Optional	Multiple
	TermsOfPayment	Element	Optional	Multiple
	AdditionalText	Element	Optional	Multiple
	PurchaseOrderLineItem	Element	Required	Multiple
	@PurchaseOrderLineItemStatusType	Attribute	Required	Single
	PurchaseOrderLineNumber	Element	Required	Single
	PurchaseOrderReference	Element	Optional	Multiple
	Product	Element	Required	Single
OR	PriceDetails	Element	Optional ¹	Multiple
	MonetaryAdjustment	Element		Multiple
	MillCharacteristics	Element	Optional	Single
	Quantity	Element	Required	Single
	InformationalQuantity	Element	Optional	Multiple
	TotalBlanketOrderValue	Element	Optional	Single
	ValidityPeriod	Element	Optional	Single
	ProductionStatus	Element	Optional	Single
	OtherDate	Element	Optional	Multiple
	ShipToCharacteristics	Element	Optional	Single
	OtherParty	Element	Optional	Multiple
	TransportModeCharacteristics	Element	Optional	Single

¹ Even though the element is required, multiple the choices are optional.

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		Type	Required	Occurrence
	TransportVehicleCharacteristics	Element	Optional	Single
	TransportUnitCharacteristics	Element	Optional	Single
	TransportLoadingCharacteristics	Element	Optional	Single
	TransportOtherInstructions	Element	Optional	Multiple
	DeliverySchedule	Element	Optional	Multiple
	GeneralLedgerAccount	Element	Optional	Single
	AdditionalText	Element	Optional	Multiple
	MonetaryAdjustment	Element	Optional	Multiple
	@AdjustmentType	Attribute	Required	Single
	MonetaryAdjustmentLine	Element	Required	Single
	MonetaryAdjustmentStartAmount	Element	Optional	Single
	MonetaryAdjustmentStartQuantity	Element	Optional	Single
OR	PriceAdjustment	Element		Single
	FlatAdjustmentAmount	Element	Required	Single
	TaxAdjustment	Element		Single
	InformationalAmount	Element	Optional	Single
	MonetaryAdjustmentReferenceLine	Element	Optional	Single
	AdditionalText	Element	Optional	Multiple
	GeneralLedgerAccount	Element	Optional	Single
	MonetaryAdjustmentAmount	Element	Optional	Single
	PurchaseOrderSummary	Element	Required	Single
	TotalNumberOfLineItems	Element	Optional	Single
	TotalQuantity	Element	Required	Multiple
	TotalInformationalQuantity	Element	Optional	Multiple
	TotalAmount	Element	Optional	Single
	TermsAndDisclaimers	Element	Optional	Single

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PurchaseOrder Schema Structure and Processing Logic

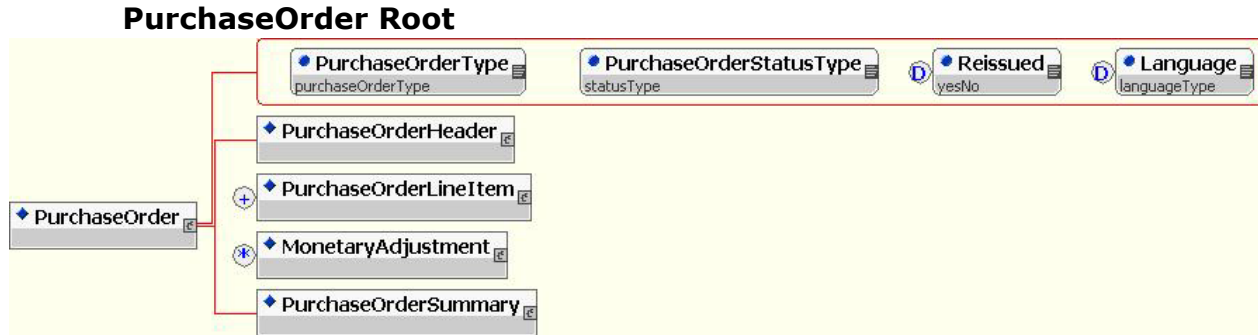
This section provides a detailed graphical view of the PurchaseOrder Schema structure; specifically the PurchaseOrder root element, the PurchaseOrderHeader, the PurchaseOrderLineItem, and the PurchaseOrderSummary. This section also contains a review of the processing logic that is special to the PurchaseOrder 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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The PurchaseOrder root element has the following attributes:

PurchaseOrderType is required and has the following options

- BlanketOrder
- ConfirmingOrder
- ConsumptionOrder
- ReleaseOrder
- ReservationOrder
 - Reservation orders have a production status of "not free," indicating that the supplier is not yet free to produce the product(s) specified in the order. All other types of purchase orders typically have a production status of "free."
 - StandardOrder
 - TrialOrder
- PurchaseOrderStatusType is required and the status here affects the status types used at the document header and line item levels.
 - Amended
 - Cancelled
 - Original
- Reissued 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.
 - Yes
 - No
- Language an optional attribute that designates the language of the document. When this attribute is omitted the document is in English "eng".

The PurchaseOrder root element has the following elements:

- PurchaseOrderHeader
- PurchaseOrderLineItem
- MonetaryAdjustment
- PurchaseOrderSummary

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PurchaseOrderHeader

The header level of information for the Purchase Order containing information that relates to the entire Purchase Order.

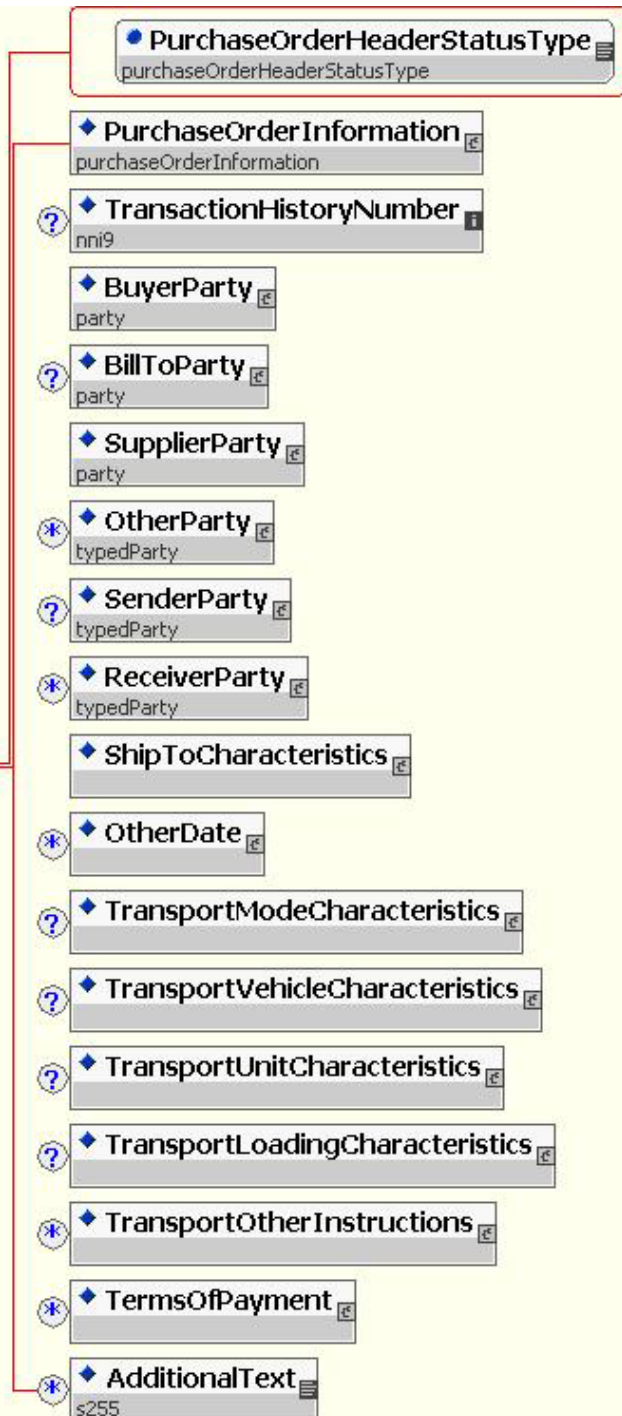
PurchaseOrderHeader has the following attribute:

- PurchaseOrderHeader-StatusType
 - Amended
 - Cancelled
 - New
 - NoAction

PurchaseOrderHeader has the following elements:

- PurchaseOrderInformation
- TransactionHistoryNumber

- PurchaseOrderHeader
- BuyerParty
- BillToParty
- SupplierParty
- OtherParty
- SenderParty
- ReceiverParty
- ShipToCharacteristics
- OtherDate
- TransportMode-Characteristics
- TransportVehicle-Characteristics
- TransportUnitCharacteristics
- TransportLoading-Characteristics
- TransportOtherInstructions
- TermsOfPayment
- AdditionalText



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PurchaseOrderLineItem

PurchaseOrderLineItem is a required, multiple instances element.

PurchaseOrderLineItem has a required attribute:

- PurchaseOrderLineItemStatusType

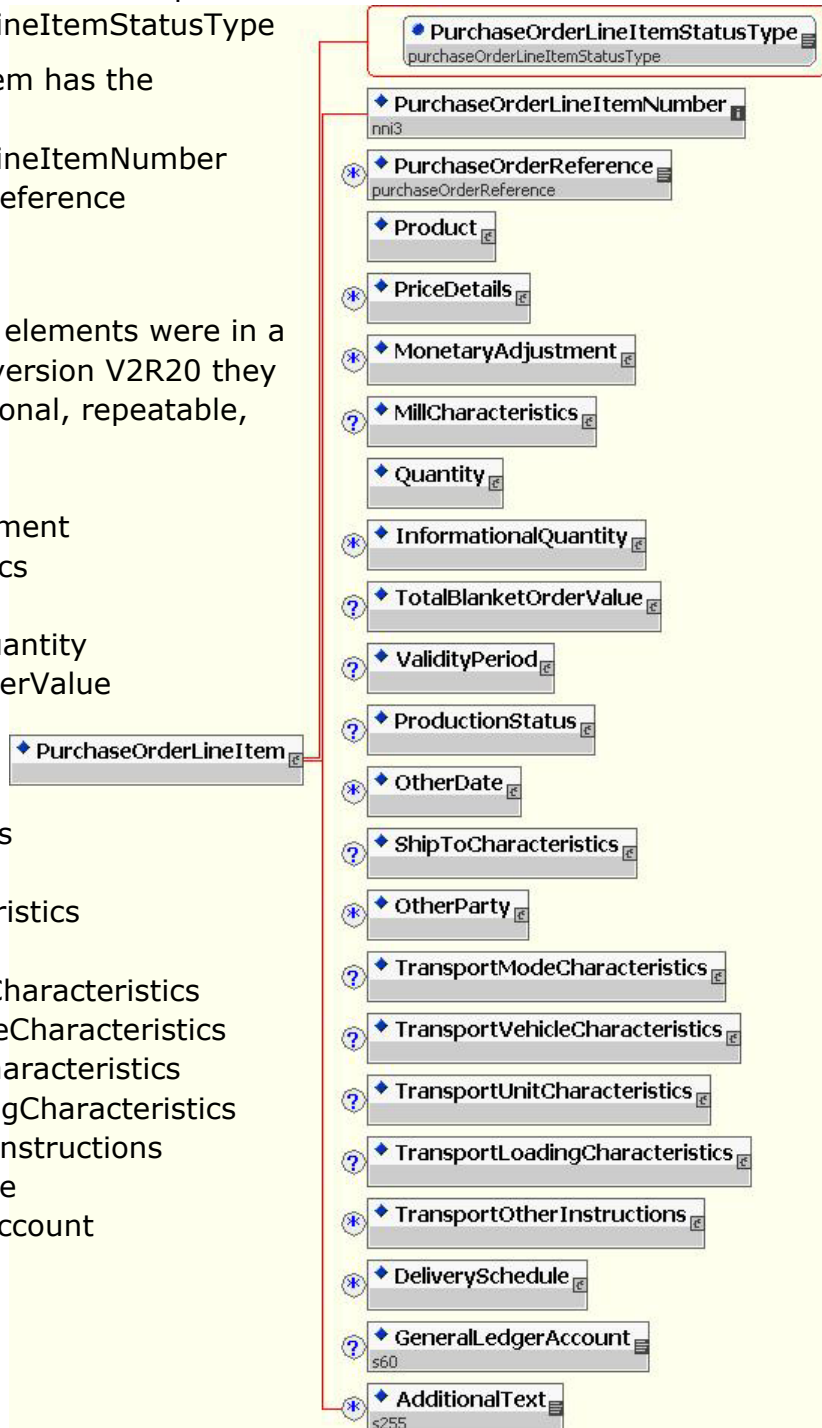
PurchaseOrderLineItem has the following elements:

- PurchaseOrderLineItemNumber
- PurchaseOrderReference
- Product

The PriceDetails and MonetaryAdjustment elements were in a choice construct. In version V2R20 they were changed to optional, repeatable, and sequential.

- PriceDetails
- MonetaryAdjustment
- MillCharacteristics
- Quantity
- InformationalQuantity
- TotalBlanketOrderValue
- ValidityPeriod

- ProductionStatus
- OtherDate
- ShipToCharacteristics
- OtherParty
- TransportModeCharacteristics
- TransportVehicleCharacteristics
- TransportUnitCharacteristics
- TransportLoadingCharacteristics
- DeliverySchedule
- GeneralLedgerAccount
- AdditionalText



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MonetaryAdjustment

The element containing the information necessary for the understanding, calculation, and treatment of an adjustment to a currency amount.

MonetaryAdjustment contains an attribute that indicates they type of adjustment being communicated:

AdjustmentType

MonetaryAdjustment contains the following elements:

MonetaryAdjustmentLine



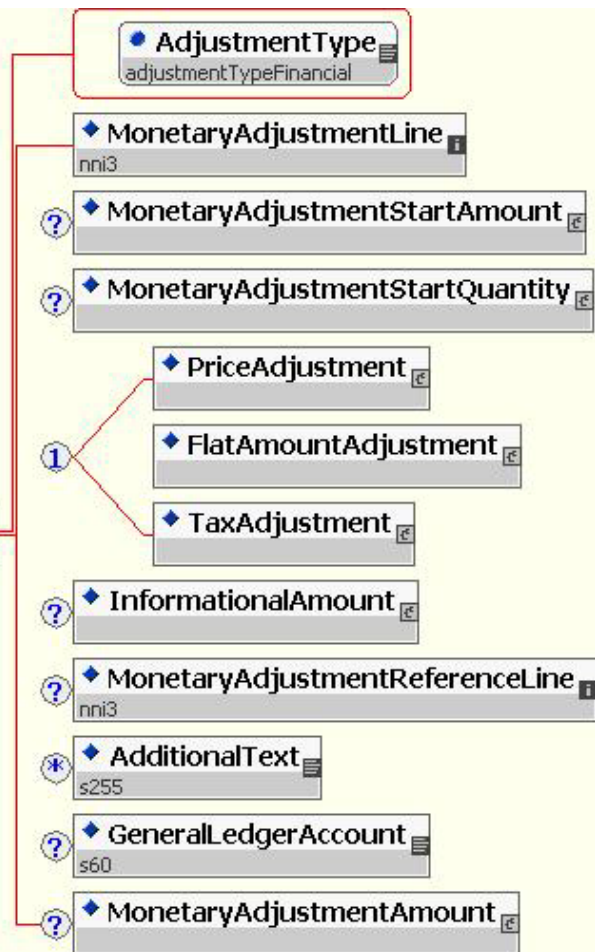
MonetaryAdjustmentStartAmount
MonetaryAdjustmentStartQuantity

A choice of one of the following:

PriceAdjustment
FlatAmountAdjustment
TaxAdjustment

And then the following elements:

InformationalAmount
MonetaryAdjustmentReferenceLine
AdditionalText
GeneralLedgerAccount
MonetaryAdjustmentAmount



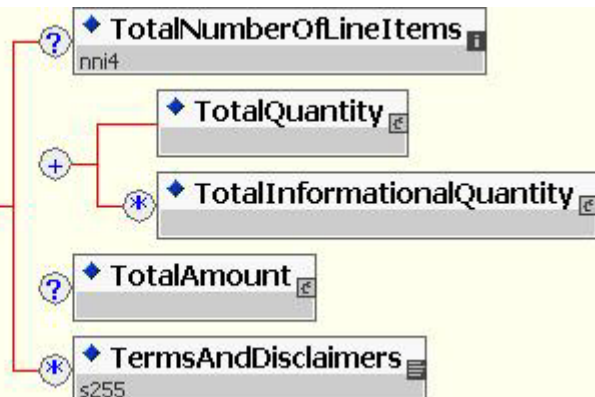
PurchaseOrderSummary

PurchaseOrderSummary is required and single instance; it contains the following elements:

- TotalNumberOfLineItems



- TotalQuantity
- TotalInformationalQuantity
- TotalAmount
- TermsAndDisclaimers



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Common Definition References - Attributes

AdjustmentType (Financial)

Describes the type of adjustment applied to an element. An adjustment can be either a value expressed in a currency or a percentage.

Used in:

- MonetaryAdjustment

Choices:

- **CancellationCharge** - A charge applied because a cancellation was late (after the last date of change) and all or part of the ordered product has already been made.
- **CashDiscount** - A reduction due to a discount applied.
- **ChargesForward** - A pending invoice amount brought forward from a previous invoice.
- **ClaimAdjustment** - An adjustment related to a filed complaint.
- **Commission** - Commission costs paid to the trading agency or trader.
- **CompetitiveAllowance** - An allowance provided for competitive reasons.
 - ◇ Introduced in version V2R20.
- **ConsigneeUnloadCharge** - An unloading charge that is the responsibility of the consignee.
 - ◇ Introduced in version V2R20.
- **ContractAllowance** - An allowance for a volume discount, usually because the agreed amount has been exceeded.
- **DefectiveAllowance** - An allowance provided for defective material.
 - ◇ Introduced in version V2R20.
- **DeliveryCharge** - The charge for delivering the product.
 - ◇ Introduced in version V2R20.
- **DeliveryNonConformanceAllowance** - An allowance due to non-conformance with the purchase agreement regarding a delivery.
- **EarlyShipAllowance** - An allowance due to a delivery that took place earlier than planned. The seller may be charged a penalty. If this is found before issuing the invoice, it can be handled through this allowance. If found later, it will be handled through a credit note.
- **Environmental** - An allowance applied due to environmental regulations.

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- **ExpeditedShipmentCharge** - An extra cost charged due to unexpected or emergency requirements (for example, breaking off a run in the mill to reach the production date for a rush order).
- **FlatRateCharge** – A general flat charge.
 - ✧ Introduced in version V2R20.
- **FreightAllowance** - The freight cost allowed by the mill. This amount is negative, and will be deducted from the invoice (U.S. business practice, in the European Union (EU), use only Freight Charge).
- **FreightCharge** - The actual cost incurred to deliver the product. This amount is positive, and will be added to the invoice.
- **HandlingCharge** – A charge related to the handling of the product.
 - ✧ Introduced in version V2R20.
- **Inspection** – The cost associated with performing an inspection of the product.
- **InterestCharge** – A charge applied for interest on overdue payments.
- **LabourAllowance** – An allowance due to additional labour required in the use or acceptance of the product.
 - ✧ Introduced in version V2R20.
- **LabourCharge** – A charge due to additional labour required in the use or acceptance of the product.
 - ✧ Introduced in version V2R20.
- **LotCharge** – A charge applied to the lot of material.
 - ✧ Introduced in version V2R20.
- **ModelHomeDiscount** – A discount associated with the building of the model home.
 - ✧ Introduced in version V2R20.
- **NewStoreCouponDiscount** – A discount associated with entry into a new store.
 - ✧ Introduced in version V2R20.
- **PalletCharge** – A charge that represents the cost or rental of the pallet.
 - ✧ Introduced in version V2R20.
- **PickUpAllowance** – An allowance provided to compensate for the cost of picking up the product.
 - ✧ Introduced in version V2R20.
- **PromotionalAllowance** – An allowance provided for the promotion of the product.
 - ✧ Introduced in version V2R20.
- **PromotionalCharge** – A charge associated with the promotion of the product.
 - ✧ Introduced in version V2R20.

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- **Other** - Any other adjustment not covered by the attribute list.
- **PriceCorrection** – An adjustment associated with a correction of the product’s price.
- **ProductionSetUpCharge** - A special charge applied due to specific buyer requests.
- **Provision** – The act of making ready or equipping for use.
- **Rebate** - A rebate accepted by the buyer and seller based on the agreed price and volume.
- **ReturnedLoadAllowance** - An allowance applied due to the return of the product.
- **ReturnLoadCharge** - A charge applied due to the return of the product.
- **ScrapAndDunnageCharge** – A charge that represents the scrapping of the material and its removal.
 - ✧ Introduced in version V2R20.
- **ServiceCharge** – A charge associated with a miscellaneous service.
 - ✧ Introduced in version V2R20.
- **SpecialDeliveryCharge** - A special charge for delivering the product differently from the usual or agreed-to method.
- **SpecialHandlingCharge** - A special charge for handling the product differently from the usual or agreed-to method.
- **SpecialPackagingCharge** - A special charge for packaging the product differently from the usual or agreed-to method, or if packaging as requested is out of spec.
- **StopOffAllowance** – An allowance for a delivery stop-off.
- **StopOffCharge** – A charge for a delivery stop-off.
- **StorageCharge** - An extra cost charged for storing the product on location (in the plant).
- **Tax** – An adjustment that reflects a tax item.
- **TestingCharge** - A charge related to testing a new paper grade.
- **TradeDiscount** - A discount based on the terms of the trade given on the agreed price. Usually a percentage.
- **TransferCharge** - A freight charge incurred by the goods transfer from one location to another location not previously agreed upon.
- **TrialDiscount** - A discount applied for a trial run of a new or improved product.
- **UnloadingAllowance** – An allowance to compensate for the unloading the product.
 - ✧ Introduced in version V2R20.
- **UnloadingCharge** – A charge for the unloading the product.
 - ✧ Introduced in version V2R20.
- **VolumeDiscount** - A rebate accepted by the buyer and the seller based on the agreed volume.

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Language

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

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

Used in:

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

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PurchaseOrderHeaderStatusType

Defines the status of the purchase order header

Used in:

- PurchaseOrderHeader

Choices:

PurchaseOrderHeaderStatusType uses the statusType data type.

- Amended
- Cancelled
- New
- NoAction

PurchaseOrderLineItemStatusType

Defines the status of the purchase order line item

Used in:

- PurchaseOrderLineItem

Choices:

PurchaseOrderLineItemStatusType uses the statusType data type.

- Amended
- Cancelled
- New
- NoAction

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PurchaseOrderType

Defines the type of purchase order issued

Used in:

- PurchaseOrder

Choices:

- **BlanketOrder** – A purchase order that communicates the same information as a StandardOrder but also indicates that the order may be completed over a period of time or, until a certain volume is achieved or, until a certain currency amount is spent.
- **ConfirmingOrder** - A confirming order is used to electronically confirm an order that has not been placed electronically by the customer that is, it was placed using another means such as fax, phone or email.
- **ConsumptionOrder** – A purchase order that is based upon consumption for a particular period of time or instance.
- **ReleaseOrder** - A release order is used to release a product to be made. This type of purchase order refers to a previous order or agreement, such as a reservation order, a contract, or a blanket order. A release number version called PurchaseOrderReleaseNumber, which is an incremented number, is used in this message.
- **ReservationOrder** - A reservation order is used to book a paper supplier's capacity for specific quantities of specific products, but it is not yet a firm commitment to buy. Consequently, all purchase order line items of a reservation order have a ProductionStatusType of NotFree. To release one or more purchase order line items of a reservation order, a buyer can use a standard order or a release order.
- **StandardOrder** - A standard order is a regular one-time order. It defines quantities for one or more products to be purchased and may also define a delivery location and date. A standard order may reference a previous agreement (for example, a quotation, a contract, or a reservation order) for information.
- **TrialOrder** - A trial order is used whenever a seller has agreed to have a buyer sample a product. The seller needs to process this order differently from other orders, because a trial order may include a product sold at a discounted rate or even provided for free. A trial order typically is for small quantities.

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Reissued

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

Used in:

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

Choices:

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

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Purchase Order Business Use Cases

Listing of Business Scenarios

<u>Scenario A</u>	Buyer makes a request to order and issues an original single-line PurchaseOrder that is New to the Supplier.
<u>Scenario B</u>	Buyer withdraws order request and therefore Cancelled a single-line PurchaseOrder.
<u>Scenario C</u>	Buyer would like to make changes to an order and makes an amendment to an existing PurchaseOrder and only Amended header information on the PurchaseOrder.
<u>Scenario D</u>	Buyer would like to make changes to an order and makes an amendment to an existing PurchaseOrder and only Amended line item information on the PurchaseOrder.
<u>Scenario E</u>	Buyer would like to make changes to an order and makes an amendment to an existing PurchaseOrder. The Buyer would like to add a New line item.
<u>Scenario F</u>	Buyer would like to make multiple changes to an order and makes an amendment to an existing PurchaseOrder. The Buyer Amended line item one, Cancelled line item two, did NoAction to line item three, and added a New line item four.
<u>Scenario G</u>	Buyer places a ReservationOrder to gain a commitment to manufacture a product at a later date.
<u>Scenario H</u>	Buyer places a ReleaseOrder to authorize the manufacture of the product above, referenced in a Reservation Order.

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Scenario A

Message	Purchase Order
Type	StandardOrder
Business Scenario	<p>Buyer issues a single-line PurchaseOrder that is accepted by the Supplier.</p> <pre> sequenceDiagram participant Buyer as : BuyerParty participant Supplier as : SupplierParty Buyer->>Supplier: Receive Purchase Order() Supplier-->Buyer: BusinessAcknowledgement Buyer->>Supplier: Receive OrderConfirmation() Supplier-->Buyer: BusinessAcknowledgement </pre>
Outcome	An original Purchase Order is entered into the Buyer's system and received into the Supplier's system.
Initiator	Buyer
Receiver	Supplier
Trigger	None
Action 1	<p>Buyer enters an original Purchase Order into their system then sends it to the Supplier. At a minimum, all required elements and corresponding attributes are entered.</p> <ul style="list-style-type: none"> • Statuses sent within the message: • PurchaseOrderStatusType = "Original" • PurchaseOrderHeaderStatusType = "New" • PurchaseOrderLineItemStatusType = "New"

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Scenario B

Message	Purchase Order
Type	Standard Order
Business Scenario	<p>Buyer cancels an existing single-line PurchaseOrder.</p> <pre> sequenceDiagram participant Buyer as : BuyerParty participant Supplier as : SupplierParty Buyer->>Supplier: Receive Purchase Order() Supplier-->Buyer: BusinessAcknowledgement Buyer->>Supplier: Receive OrderConfirmation() Supplier-->Buyer: BusinessAcknowlegement </pre>
Outcome	Purchase Order is cancelled in the Buyer's and Supplier's system.
Initiator	Buyer
Receiver	Supplier
Preconditions	An Original Purchase Order must have been sent by Buyer to Supplier.
Trigger	None
Action 1	<p>Buyer resends the complete Purchase Order to the Supplier with all statuses as cancelled.</p> <ul style="list-style-type: none"> • Statuses sent within the message: • PurchaseOrderStatusType = "Cancelled" • PurchaseOrderHeaderStatusType = "Cancelled" • PurchaseOrderLineItemStatusType = "Cancelled"

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Scenario C

Message	Purchase Order
Type	StandardOrder
Business Scenario	<p>Buyer issues an Amendment to a PurchaseOrder that contains a change to Header information only.</p> <pre> sequenceDiagram participant Buyer as : BuyerParty participant Supplier as : SupplierParty Buyer->>Supplier: Receive Purchase Order() activate Supplier Supplier-->>Buyer: BusinessAcknowledgement deactivate Supplier Buyer->>Supplier: Receive OrderConfirmation() activate Supplier Supplier-->>Buyer: BusinessAcknowlegement deactivate Supplier </pre>
Outcome	The Purchase Order is changed in the Buyer's and Supplier's system.
Initiator	Buyer
Receiver	Supplier
Preconditions	An Original Purchase Order must have been sent by Buyer to Supplier.
Trigger	None.
Action 1	<p>Buyer enters all of the original Purchase Order information into their system along with the amended header information then sends it to the Supplier.</p> <ul style="list-style-type: none"> • Statuses sent within the message: • PurchaseOrderStatusType = "Amendment" • PurchaseOrderHeaderStatusType = "Amended" • PurchaseOrderLineItemStatusType = "NoAction"

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Use Case D

Message	Purchase Order
Type	StandardOrder
Business Scenario	<p>Buyer issues an Amendment to an existing PurchaseOrder that contains a change to line item information only.</p> <pre> sequenceDiagram participant Buyer as : BuyerParty participant Supplier as : SupplierParty Buyer->>Supplier: Receive Amended PurchaseOrder() Supplier-->Buyer: BusinessAcknowledgement Buyer->>Supplier: Receive OrderConfirmation() Supplier-->Buyer: BusinessAcknowledgement </pre>
Outcome	The Purchase Order is changed in the Buyer's and Supplier's system.
Initiator	Buyer
Receiver	Supplier
Preconditions	An Original Purchase Order must have been sent by Buyer to Supplier.
Trigger	None.
Action 1	<p>Buyer enters existing Purchase Order information into their system along with the changed information at the line item and then sends it to the Supplier.</p> <ul style="list-style-type: none"> • Statuses sent within the message: • PurchaseOrderStatusType = "Amendment" • PurchaseOrderHeaderStatusType = "NoAction" • PurchaseOrderLineItemStatusType = "Amended"

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Scenario E

Message	Purchase Order
Type	StandardOrder
Business Scenario	<p>Buyer issues an Amendment to an existing PurchaseOrder and adds a new line item.</p> <pre> sequenceDiagram participant Buyer as : BuyerParty participant Supplier as : SupplierParty Buyer->>Supplier: Receive Amended PurchaseOrder() Supplier-->Buyer: BusinessAcknowledgement Buyer->>Supplier: Receive OrderConfirmation() Supplier-->Buyer: BusinessAcknowledgement </pre>
Outcome	The Purchase Order is changed in the Buyer's and Supplier's system that includes a new line item on the order.
Initiator	Buyer
Receiver	Supplier
Preconditions	An Original Purchase Order must have been sent by Buyer to Supplier.
Trigger	None
Action 1	<p>Buyer enters existing Purchase Order information into their system along new information at the line item and then sends it to the Supplier</p> <ul style="list-style-type: none"> • Statuses sent within the message: • PurchaseOrderStatusType = "Amendment" • PurchaseOrderHeaderStatusType = "NoAction" • PurchaseOrderLineItemStatusType item1 = "NoAction" • PurchaseOrderLineItemStatusType item2 = "New"

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Scenario F

Message	Purchase Order
Type	StandardOrder
Business Scenario	<p>Buyer issues an Amendment to an existing PurchaseOrder. The Buyer Amended line item one, Cancelled line item two, did NoAction to line item three, and added a new line item.</p> <pre> sequenceDiagram participant Buyer as : BuyerParty participant Supplier as : SupplierParty Buyer->>Supplier: Receive Amended PurchaseOrder() Supplier-->>Buyer: BusinessAcknowledgement Buyer->>Supplier: Receive OrderConfirmation() Supplier-->>Buyer: BusinessAcknowledgement </pre>
Scenario Outcome	The Purchase Order is changed in the Buyer's and Supplier's system that includes a change on line item one, a cancelled line item two, and a new line item, four, on the order.
Message Initiator	Buyer
Message Receiver	Supplier
Preconditions	An Original Purchase Order must have been sent by Buyer to Supplier. Line items one, two, and three had to have been previously sent from the buyer to the Supplier.
Trigger	None
Action 1	<p>Buyer enters existing Purchase Order information into their system along new information at the line item and then sends it to the Supplier.</p> <ul style="list-style-type: none"> • Statuses sent within the message: • PurchaseOrderStatusType = "Amendment" • PurchaseOrderHeaderStatusType = "NoAction" • PurchaseOrderLineItemStatusType item1 = "Amended" • PurchaseOrderLineItemStatusType item2 = "Cancelled" • PurchaseOrderLineItemStatusType item3 = "NoAction" • PurchaseOrderLineItemStatusType item4 = "New"

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Scenario G

Message	Purchase Order
Type	ReservationOrder
Business Scenario	<p>Buyer issues a multiple-line Reservation PurchaseOrder that is accepted by the Supplier.</p> <pre> sequenceDiagram participant Buyer as : BuyerParty participant Supplier as : SupplierParty Buyer->>Supplier: Receive Purchase Order() activate Supplier Supplier-->>Buyer: BusinessAcknowledgement deactivate Supplier Buyer->>Supplier: Receive OrderConfirmation() activate Supplier Supplier-->>Buyer: BusinessAcknowledgegement deactivate Supplier </pre>
Outcome	An original Reservation Order is entered into the Buyer's system and received by the Supplier and may be entered into the Supplier's system.
Initiator	Buyer
Receiver	Supplier
Trigger	None
Action 1	<p>Buyer enters an original Reservation Purchase Order into their system then sends it to the Supplier. At a minimum, all required elements and corresponding attributes are entered.</p> <ul style="list-style-type: none"> • Statuses sent within the message: • PurchaseOrderStatusType = "Original" • PurchaseOrderHeaderStatusType = "New" • PurchaseOrderLineItemStatusType = "New" • Note that the Reservation Order may or may not have a Purchase Order Number. If not required between trading partners, the value "Planning Order" may be entered in the Purchase Order Number field.

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Scenario H

Message	Purchase Order
Type	ReleaseOrder
Business Scenario	<p>Buyer issues a multiple-line Release PurchaseOrder that is accepted by the Supplier.</p> <pre> sequenceDiagram participant Buyer as : BuyerParty participant Supplier as : SupplierParty Buyer->>Supplier: Receive Purchase Order() activate Supplier Supplier-->>Buyer: BusinessAcknowledgement deactivate Supplier Buyer->>Supplier: Receive OrderConfirmation() activate Supplier Supplier-->>Buyer: BusinessAcknowledgement deactivate Supplier </pre>
Outcome	An original Release Purchase Order is entered into the Buyer's system and received into the Supplier's system. It is matched against the corresponding ReservationOrder in the supplier system
Initiator	Buyer
Receiver	Supplier
Trigger	None
Action 1	<p>Buyer enters an original Purchase Order into their system then sends it to the Supplier. At a minimum, all required elements and corresponding attributes are entered.</p> <ul style="list-style-type: none"> • Statuses sent within the message: • PurchaseOrderStatusType = "Original" • PurchaseOrderHeaderStatusType = "New" • PurchaseOrderLineItemStatusType = "New"

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Additional Information for Purchase Order – Book Manufacturing

Processing a Book Manufacturing Industry Specific Purchase Order

We are going to use the sample Purchase Order in Appendix A to show how this data can be converted to the papiNet XML format. We will be able to demonstrate virtually all of the constructs.

The example is shown in an Excel table format in Appendix B labelled **Purchase Order Sample**. There is a blank template in the same format in the Excel Spreadsheet included in the zip file. This shows most of the possible fields and their relationships.

The Excel format consists of a field name with indentation showing nesting. The Required field values can be "Required" or "Optional". Obviously, if it is required it must contain a value. If optional, it does not have to exist at all – that is, even the name need not appear.

Attribute or Element defines the nature of the field. An Element contains data while an Attribute contains a modifying value from a list. Only values from this list can be used to pass a XML schema validation. All such Attributes can be found in the papiNet Data Dictionary, Part B. The Appendix to this document contains values particular to Book Manufacturing.

The field labelled Optional can contain the values "Single" or "Multiple". If single, there can only be one value or occurrence. If multiple, the field or construct can repeat.

While we will walk through all of the fields in the message, it is our intention to use as few fields as possible in our messages. Any fields that are optional and blank will not be shown at all in the Use Cases.

With that as an introduction, let us look at the sample Purchase Order message.

Purchase Order Message

- **PurchaseOrderType** is required and supports the values Reservation, Release, Confirming, Standard, Trial, Blanket, and Consumption. This instance is "Standard".
- **PurchaseOrderStatusType** is required and supports the values Original, Amended, and Cancelled. XBITS is not recommending the use of the **Reissued** or **Language** elements at this point in North America so these two fields would not appear in the message.

We now begin the entries for the Purchase Order Header.

Purchase Order Header

- **PurchaseOrderHeaderStatusType** is required and supports the values New, Amended, Cancelled, and NoAction.

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- **PurchaseOrderInformation** contains a number of fields. **PurchaseOrderNumber** and **PurchaseOrderIssuedDate** are both required fields and supplied.
- **PurchaseOrderReleaseNumber** is optional and not used in this example. Technically, the field name need not appear – it is included for illustrative purposes only. Its main use would be as an Amendment number. If trading partners agree upon this use, it would probably be desired to include it for the “New” PurchaseOrderHeaderStatusType with the value of zero.
- The construct consisting of **PurchaseOrderReference** is where we will store much of the Book Manufacturing Industry specific identifying information such as ISBN. The Reference field is 255 characters long and contains the data. The **ReferenceType** field is an attribute of field descriptions. The full list can be found in the Data Dictionary.
- The **TransactionHistoryNumber** is not supplied in this example and need not appear.
- There follows a number of “**Parties**”. The full picture of this construct is not shown here. This example simply displays the Party Identifier and Type and the Name of the party for each case. The Party Identifier will normally be SAN or DUNS numbers. Note that only the Name field is required by the schema for a Party and that only the Buyer, Supplier, and ShipTo parties are required. The ShipToParty is located within the ShipToCharacteristics.
- The **OtherDate** construct is similar to the Reference construct and consists of a Date and DateType identified by an attribute and consisting of values such as Bound Book Date.
- There are five optional group elements that define various aspects of transportation. These are generally not used by Book Manufacturing. The five groups are:
 - TransportModeCharacteristics**
 - TransportVehicleCharacteristics**
 - TransportUnitCharacteristics**
 - TransportLoadingCharacteristics**
 - TransportOtherInstructions**
- **TermsOfPayment** is a group item that contains agreed-to terms defining when, how, and under what conditions the payment for goods is to be made. It was not on the example and need not appear. While Book Manufacturing Industry trading partners could certainly exchange that information within this construct, such terms would usually be outside these messages.
- **AdditionalText** is a 255 character long field that is optional and multiple and is used for any non-fielded information that needs to

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appear at the header level. There will be similar fields also at the Line Item level

Purchase Order Line Item

The Line Item is required and there can be one or more. This is where each component to be purchased is defined.

- **PurchaseOrderLineItemStatusType** is required and supports the values New, Amended, Cancelled, and No Action, and this instance is "New".
- **PurchaseOrderLineItemNumber** is required and sequentially numbers the Line Items in the Purchase Order.
- **PurchaseOrderReference** is the same construct we saw in the header. It is not necessary to define anything at the Line Item level that was defined at the header so we have no new entries here.
- The **Product** construct. The Product Identifier will contain a unique identifier defined by the buyer organization. The modifying fields, Product Identifier Type and Agency, will contain the values "Part Number", and "Buyer" or "Supplier" respectively.
- If for some reason the **ProductIdentifier** by itself cannot produce true uniqueness, the required uniqueness can be achieved by the combination this number and Classification fields if necessary.

If required for clarity purposes, there can be multiple Product entries per Line Item.

Product Construct Snippet				
Product	Element	Required	Multiple	
ProductIdentifier	Element	Required	Multiple	"Unique Print Component ID"
@ProductIdentifier-Type	Attribute	Required	Single	"Part Number"
@Agency	Attribute	Optional	Single	"Buyer"
ProductDescription	Element	Optional	Multiple	"Human readable component description from Specs"
ClassificationCode	Element	Required	Single	TEXT
@Agency	Attribute	Optional	Single	"XBITS"
BookManufacturing	Element	Optional	Single	

- **ProductDescription** will contain any description desired by the buyer, perhaps from the Description field associated with each component specification.
- The **Classification** construct defines the actual component. The Classification Code will contain the values for component names as

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defined within the Book Manufacturing Industry Specification message, for example "BIND". The value "XBITS" will be used for the Agency, and Classification Description is usually blank.

- The Book Manufacturing Industry specific requirements have also been included within the **Product** construct. These include the following constructs, and will be discussed in detail below. These new constructs are the heart of the Book Manufacturing Industry specific information within the papiNet Purchase order.

Product Construct Elements for Book Manufacturing			
Book Manufacturing	Element	Optional	Single
Proof Informational Quantity	Element	Optional	Multiple
SuppliedComponentInformation	Element	Optional	Multiple
Packaging Characteristics	Element	Optional	Single

- The **Proof Informational Quantity** has values to capture information on publishing proof requirements. In addition, a ShipTo construct exists to provide information on who should receive the proofs or samples or whatever is requested. It is an optional construct that can have multiple occurrences. The specific elements are:
 - ✦ **ProofType** – See Data Dictionary for possible values
 - ✦ **Quantity** – The expected values for QuantityTypeContext in this usage would be "Confirmed", or "Sample". Note also that the UOM for this usage could be values such as "Sets" or "Signatures" or "Books".
- InformationalQuantity** – Same as Quantity construct below

Below is an example using Quantity and InformationalQuantity to order one **set** of "Blues" consisting of **signatures**, where the "Sets" are identified within Quantity and the "Signatures" within InformationalQuantity.

ProofInformationalQuantity example				
Proof Informational Quantity	Element	Optional	Multiple	New construct
@Proof Type	Attribute	Optional	Single	"Blues"
Quantity	Content Element			
@Quantity Type	Attribute	Required	Single	"Count"
@Quantity Type Context	Attribute	Required	Single	"Confirmation"
Value	Element	Required	Single	1
@UOM	Attribute	Required	Single	Sets
InformationalQuantity	Element	Optional	Single	
@Quantity Type	Attribute	Required	Single	"Count"
@Quantity Type Context	Attribute	Required	Single	"Confirmation"
Value	Element	Required	Single	3

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ProofInformationalQuantity example				
@UOM	Attribute	Required	Single	"Signatures"

- **OtherParty**, which is a normal Party construct, in this case indicates to whom the Proof should be sent.
- **ProofApprovalDate** is the date by which approval of the Proof is required by the supplier.
- **ProofDueDate** is the date the Proof is due to the requestor.
- **AdditionalText**

Monetary Adjustment

Monetary Adjustment is not used in this example and need not appear. It is possible, however, that this field could be needed at times, especially when ordering internationally.

Purchase Order Summary

The PurchaseOrderSummary is a calculated series of fields that enable the performance of validation of the information received for a purchase order.

- **TotalNumberOfLineItems** is a required field and represents the count of line items of the purchase order.
- **TotalQuantity** is a required field and is the sum of the values for all Quantity fields, using the same format as Quantity in the Line item.
- **TotalInformationalQuantity** is an optional field and is the sum of the values for all Quantity fields, using the same format as Informational Quantity in the Line item.
- **TotalAmount** is an optional field and is the sum of the values for all Amount fields.
- **TermsAndDisclaimers** is an optional 255-character text field.

PackagingCharacteristics

Packaging Characteristics is an optional construct and contains two elements, **Carton Characteristics** and **Pallet Packaging Characteristics**. It is used as an override to the standard packaging operating procedures.

Carton Characteristics consists of a number of elements:

- **Carton Type** as a string.
- **Height, Length, Width, and Weight** are all value constructs with minimum and maximums.
- **Units per Carton** as a number.
- **LabelCharacteristics**, consisting of strings for **CustomerMarks, LabelStyle, LabelBrandName, LabelPosition**, and a value for **NumberOfLabels**.
- **StencilCharacteristics**, consisting of **StencilType, StencilInkType, StencilLocation, StencilContent**, and **StencilFormat**, with a string for **StencilText**.

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- **WrapCharacteristics**, consisting of **WrapType** and **WrapProperties**, with a value for **NumberOfWraps** and a string for **Brand**.
- **BandCharacteristics**, consisting of **BandType** and **BandsRequired**, with a value for **NumberOfBands** and a string for **BandColour**.

PalletPackagingCharacteristics

PalletPackagingCharacteristics consists of a number of elements:

- **PackagingCode** as a string.
- **PackagingDescription** as a string.
- **WrapCharacteristics** – see Carton Characteristics.
- **PalletCharacteristics**, consisting of Boolean values for **MixedProductPalletIndicator**, with elements for **PalletType**, **PalletLedgeType**, **PalletCoverType**, **PalletAdditionsType**, and **PalletTopType**. **PalletLength**, **PalletWidth**, and **MaximumHeight** are all value constructs with minimums and maximums. **ItemsPerPallet**, **StacksPerPallet**, and **TiersPerPallet** are values with a string for **StackingMethod**.
- **BandCharacteristics** – see BoxCharacteristics.
- **LabelCharacteristics** – see BoxCharacteristics.
- **StencilCharacteristics** – see BoxCharacteristics.
- **MaximumHeight** as a value.
- **MaximumGrossWeight** as a value.
- **AdditionalText** as a string.

We now leave the expanded Product construct and return to the standard Purchase Order construct.

The Purchase Order schema at this point offers the user a choice between Price Details and Monetary Adjustment. The Book Manufacturing Industry will normally use the PriceDetails.

- **MonetaryAdjustment** This field could be needed at times, especially when ordering internationally. Details on the format can be found in the schema.
- **PriceDetails** is an optional element that can have multiple entries, as this is where you may enter costs by account code. This can be BISAC account codes or any other agreed upon General Ledger Codes. We strongly recommend the use of the BISAC codes.

The specific elements are listed below:

- **PriceQuantityBasis**, which is the same as the Quantity Type discussed below under Quantity. There is also an associated Boolean **PriceTaxBasis** indicating if the Price is taxable.
- **PricePerUnit** consists of two main elements. The first one is **CurrencyValue** and **CurrencyType**. This value will be the **Value** (Unit Price) times the Quantity to calculate the **CurrencyValue** and the

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CurrencyType will indicate the currency, which will be "USD" for most of us. The second element is the **PricePerUnit** and **UOM**, representing the unit price and the values such as "Unit", or "HundredPound" for paper.

Example of PriceDetails				
PriceDetails	Group	Required	Multiple	Either PriceDetails or Monetary-Adjustment is optional.
@PriceQuantityBasis	Attribute	Optional	Single	"Count"
Price Tax Basis	Element	Optional	Single	NA
CurrencyValue	Element	Optional	Single	8250
CurrencyType	Attribute	Optional	Single	"USD"
Price per Unit	Element	Optional	Single	0.55
@UOM	Attribute	Optional	Single	"Unit"
GeneralLedgerAccount	Element	Optional	Single	630012
@Agency	Attribute	Required	Single	"BISAC"

- **InformationalPricePerUnit** is an optional and multiple construct similar to PricePerUnit to account for any other pricing combinations that may be required.
- **AdditionalText** – could be used for human-readable description of the cost code.
- **ExchangeRate** This field could be needed at times, especially when ordering internationally. Details on the format can be found in the schema.
- **GeneralLedgerAccount** will contain the values for either the General Ledger or BISAC codes as agreed upon by trading partners. Additional values could be added later if required. Agency contains values for General Ledger or BISAC.
- **Mill Characteristics** will not be used by the Book Manufacturing Industry and can be ignored.
- **Quantity** is a required construct with a number of elements. A required element is **QuantityType** with an optional **QuantityTypeContext**. QuantityType indicates the type of quantity being communicated, such as "Count" or "Tare Weight". Most of these values are oriented to the paper industry and the entire list can be seen in Appendix F. For Book Manufacturing this will almost always be "Count". The **QuantityTypeContext** includes new values such as "On Order", "On Hand", "Confirmed", and "Example".

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Example of a Quantity construct				
Quantity	Group	Required	Single	
@QuantityType	Attribute	Required	Single	"Count"
@QuantityTypeContext	Attribute	Required	Single	"On Order"
Value	Element	Required	Single	15000
@UOM	Attribute	Required	Single	"Unit"

- Another required element is **Value**, which contains the actual quantity, and an associated required Unit of measure (**UOM**).
- There are also optional **RangeMin** and **RangeMax** values with UOM.
- **Informational Quantity** is an optional multiple construct with the same elements as Quantity. It is used to define any additional quantities as needed.
- **TotalBlanketOrderValue** is not used in this example and need not appear.
- **ValidityPeriod** defines the valid from and to dates for a blanket order. Not used in this example and need not appear.
- **ProductionStatus** will probably not be used by the Book Manufacturing Industry.
- **OtherDate** is similar in construct and use to the same field name in the Header. OtherDate would only be used to override a date in the header, or to add a new date specific to a line item.
- **OtherParty** is similar in construct and use to the same field name in the Header. OtherParty would only be used to override a Party in the header, or to add a new Party specific to a line item.
- **ShipToCharacteristics** is similar in construct and use to the same field name in the Header. Note that this will override the Header ShipTo values for this component or Line Item.
- **AdditionalText** is similar in construct and use to the same field name in the Header. This will not override values in the Header field, but add specifics for the line item.

SuppliedComponentInformation

The **Supplied Component Information** is a construct for the Book Manufacturing Industry and describes exactly what its name implies – what components or Raw Materials are supplied and by whom and when. It is an optional construct that can have multiple occurrences. For instance, it can be used to define a Raw Material such as paper required for a print job, or to define covers to be delivered by a component supplier. It can also be used to define prepress components such as Film, Files, etc.

The specific elements are:

- **SuppliedComponentType**
- **SupplierParty**

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- **ProductIdentifier** and **Description**
- **ClassificationCode** and **Description**
- **SuppliedComponentReference**, which is the normal Reference structure
- Normal **Quantity** construct, where the Book Manufacturing Industry would usually use "Count".
 - ✧ **ComponentShipDate**
 - ✧ **ComponentDueDate**.
 - ✧ **ComponentNeededDate** - not on PO – only entered by supplier.
 - ✧ **OrderStatusInformation** - only used in the Status Message.
- **AdditionalText**

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Appendixes

Appendix A - Sample printed purchase order

HarperCollinsPublishers
 East 53rd Street, New York, NY 10022
 Phone: (212) 207-7000

PURCHASE ORDER F056065

INVOICE IN TRIPLICATE TO:

HarperCollinsPublishers
 10 East 53rd Street
 New York, NY 10022-5299

Attn: PRODUCTION PERSON

VENDOR
 QUEBECOR-MARTINSBURG
 1989 Arcata Blvd.
 Martinsburg, WV 25401
 Attn: CHERYL POORE

Master PO#	PO Date	Bound Book Date	Page
	7/19/2002	7/26/2002	1 of 2
Division #	Imprint		Budget Ctr
GENERAL TRADE	REGANBOOKS		2201010

SHIP TO
 HARPERCOLLINS WAREHOUSE
 1000 Keystone Park
 Scranton, PA 18512
 Attn: Distribution Services

ISSN 0-06-039245-2	Job#: 5228 Prt#: 28	Title Description Stupid White Men	Date Required 7/26/2002
Author Moore, Michael	Retail Price 24.95/37.95	Trim Size 5-1/2 X 8-1/4	# Pages 304

QUANTITY	DESCRIPTION	CHARGE CODE	UNIT COST	EXPENDITURE
15,000	*** PRINT *** Film Type: On Hand Film Available: Yes Printing Method: Web Offset Inks: 1 Black only Header Margin: 9/16 inches Gutter Margin: 13/16 inches Bleed: Yes * Paper * Paper Supplier: Reserve Raw Material Code: SEBQ50225T Paper Allocation: 14300 Pounds Stock Description: Sebago, Roll Size: 22 1/2", 50#, 400, B08 CREAM, Signatures: 9-32pg, 1-16pg Paper Due Date: ON HAND			
15,000	*** BIND *** * Jacket Due Date: 7/23/2002 CORAL GRAPHICS Binding Method: Notch Binding Die: on hand Backing/Reinforcements: Round Back/Single Crash Signatures: 9/32 + 1/16 Cover Type: 3 Piece Case Book Bulk: 3/4" Book Trim: Full Trim	Binding 0301		

Special Instructions
 UPDATE COPYRIGHT PAGE. STENCIL CARTONS WITH: US\$24.95/CAN\$37.95. SEND 2
 SAMPLE BOOKS TO THE ATTENTION OF: IRIS SCHNEIDER.

TOTAL

Requested By Iris Schneider	Date 8/7/2002	Production Manager	Date
Department Name	Dept. #	Dest. Code	VP Production/Authorized by
			Date

VENDOR PRODUCTION FILE ACCOUNTS PAYABLE WAREHOUSE PAPER CONTROL SYSTEM INPUT

Book Purchase Order Documentation

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HarperCollinsPublishers
 10 East 53rd Street, New York, NY 10022
 Phone: (212) 207-7000

PURCHASE ORDER F056065

INVOICE IN TRIPLICATE TO:

HarperCollinsPublishers
 10 East 53rd Street
 New York, NY 10022-5299

Attn: PRODUCTION PERSON

QUEBECOR-MARTINSBURG
 1989 Arcata Blvd.
 Martinsburg, WV 25401

Attn: CHERYL POORE

VENDOR

Master PO#	PO Date	Bound Book Date	Page
	7/19/2002	7/26/2002	2 of 2
Division #	Imprint		Budget Ctr
GENERAL TRADE	REGANBOOKS		2201010

SHIP TO

HARPERCOLLINS WAREHOUSE
 1000 Keystone Park
 Scranton, PA 18512
 Attn: Distribution Services

ISBN 0-06-039245-2	Job#: 5228 Prt#: 28	Title Description Stupid White Men	Date Required 7/26/2002
Author Moore, Michael	Retail Price 24.95/37.95	Trim Size 5-1/2 X 8-1/4	# Pages 304

QUANTITY	DESCRIPTION	CHARGE CODE	UNIT COST	EXPENDITURE
15,000	Endpaper material: Cream White, Match Text Head and Footband colors: White Carton Quantity: 10 * Case * Board Type/Thickness: .085 Pasted Oak Board Spine Material: Parmalin, Jade BB Spine Stamping: Lustrifoil, 197 Side Material: Multicolor Antique, Burnt Orange Side Stamping: Blind, Colophon Foil: 8.2500 Sq. inches, 1st Hit Foil * Additional Bind Specs * If necessary to meet warehouse date, Rainbow BB Teal can be used on the spine & Rainbow Antique B Orange can be used on the sides. DO NOT use Black over Black for the cases anymore.			
Special Instructions			TOTAL	

Requested By Iris Schneider	Date 8/7/2002	Production Manager	Date
Department Name	Dept. #	VP Production/Authorized by	Date

VENDOR PRODUCTION FILE ACCOUNTS PAYABLE WAREHOUSE PAPER CONTROL SYSTEM INPUT

Book PurchaseOrder Documentation papiNet Standard - Version 2.20

Appendix B – Sample Purchase Order

PO Use 1 - Stupid White Men (Text and Bind)

	Type	Required	Occurrence	Status
PurchaseOrder	Root			
PurchaseOrderType	Attribute	Required	Single	Standard
PurchaseOrderStatusType	Attribute	Required	Single	Original
PurchaseOrderHeader	Group	Required	Single	
PurchaseOrderHeaderStatusType	Attribute	Required	Single	New
PurchaseOrderInformation	Group	Required	Single	
Purchase Order Number	Element	Required	Single	F056065
Purchase Order Issued Date	Element	Optional	Single	7/19/2002
Purchase Order Reference	Element	Optional	Multiple	0-06-039245-2
Purchase Order Reference Type	Attribute	Optional	Single	ISBN10Dash
Purchase Order Reference	Element	Optional	Multiple	28
Purchase Order Reference Type	Attribute	Optional	Single	Printing Number
Purchase Order Reference	Element	Optional	Multiple	5228
Purchase Order Reference Type	Attribute	Optional	Single	Buyer Job Number
Purchase Order Reference	Element	Optional	Multiple	Stupid White Men
Purchase Order Reference Type	Attribute	Optional	Single	Title Description
Purchase Order Reference	Element	Optional	Multiple	Moore, Michael
Purchase Order Reference Type	Attribute	Optional	Single	Author
Purchase Order Reference	Element	Optional	Multiple	General Trade
Purchase Order Reference Type	Attribute	Optional	Single	Buyer Division Identifier
Purchase Order Reference	Element	Optional	Multiple	REGANBOOKS
Purchase Order Reference Type	Attribute	Optional	Single	Buyer Imprint
Purchase Order Reference	Element	Optional	Multiple	24.95 / 37.95
Purchase Order Reference Type	Attribute	Optional	Single	Buyer Retail Price
BuyerParty	Group	Required	Single	
Party Identifier	Element	Optional	Multiple	1234567
Party Identifier Type	Attribute	Optional	Single	SAN

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PO Use 1 - Stupid White Men (Text and Bind)				
	Type	Required	Occurrence	Status
Name Address	Group	Required	Single	
Name 1	Element	Required	Single	Harper Collins Publishers
Common Contact	Group	Optional	Multiple	
Contact Type	Element	Required	Single	BUYER
Name	Element	Required	Single	Iris Schneider
Bill to Party	Group	Optional	Single	Party construct. See BuyerParty
Party Identifier	Element	Optional	Multiple	1234567
Party Identifier Type	Attribute	Optional	Single	SAN
Name Address	Group	Required	Single	
Name 1	Element	Required	Single	Harper Collins Publishers
SupplierParty	Group	Required	Single	
Party Identifier	Element	Optional	Multiple	1796038
Party Identifier Type	Attribute	Optional	Single	SAN
Name Address	Group	Required	Single	
Name 1	Element	Required	Single	Quebecor - Martinsburg
SenderParty	Group	Optional	Single	
Party Identifier	Element	Optional	Multiple	1234567
Party Identifier Type	Attribute	Optional	Single	SAN
Name Address	Group	Required	Single	
Name 1	Element	Required	Single	Harper Collins Publishers
ReceiverParty	Group	Optional	Multiple	
Party Identifier	Element	Optional	Multiple	1796038
Party Identifier Type	Attribute	Optional	Single	SAN
Name Address	Group	Required	Single	
Name 1	Element	Required	Single	Quebecor - Martinsburg

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PO Use 1 - Stupid White Men (Text and Bind)					
	Type	Required	Occurrence	Status	
ShipToCharacteristics	Group	Required	Single		
ShipToParty	Group	Required	Single		
Party Identifier	Element	Optional	Multiple	12345670010	
Party Identifier Type	Attribute	Optional	Single	AssignedByBuyer	
Name Address	Group	Required	Single		
Name 1	Element	Required	Single	Harper Collins Warehouse	
Other Date	Group	Optional	Multiple		
Date Type	Attribute	Required	Single	Bound Book Date	
Date	Group	Required	Single		
Year	Element	Required	Single	2002	
Month	Element	Required	Single	7	
Day	Element	Required	Single	26	
PurchaseOrderLineItem	Group	Required	Multiple		
PurchaseOrderLineItemStatusType	Attribute	Required	Single	New	
PurchaseOrderLineItemNumber	Element	Required	Single	1	
Product	Group	Required	Multiple		
Product Identifier	Group	Required	Multiple	006039245228TEXT	
Agency	Attribute	Required	Single	XBITS	
Product Identifier Type	Attribute	Required	Single	PartNumber	
Classification	Group	Optional	Multiple		
Classification Code	Attribute	Required	Single	TEXT	
Agency	Attribute	Optional	Single	XBITS	
Book Manufacturing	Group	Optional	Single		
Proof Informational Quantity	Group	Optional	Multiple		
Proof Type	Attribute	Optional	Single	Blues	
Quantity	Group	Required	Single		
QuantityType	Attribute	Required	Single	Count	

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PO Use 1 - Stupid White Men (Text and Bind)		Type	Required	Occurrence	Status
QuantityTypeCo ntext	Attribute	Required	Single	Confirmation	
Value	Element	Required	Single	1	
UOM	Attribute	Required	Single	Sets	
InformationalQuantity	Group	Optional	Multiple	See Quantity above	
QuantityType	Attribute	Required	Single	Count	
QuantityTypeCo ntext	Attribute	Required	Single	Confirmation	
Value	Element	Required	Single	3	
UOM	Attribute	Required	Single	Signatures	
Other Party	Group	Optional	Single		
Party Identifier	Element	Optional	Multiple	1234567	
Party Identifier Type	Attribute	Optional	Single	SAN	
Name Address	Group	Required	Single		
Name 1	Element	Required	Single	Harper Collins Publishers	
Common Contact	Group	Optional	Multiple		
Contact Type	Element	Required	Single	Designer	
Name	Element	Required	Single	Elisa Dunne	
ProofDueDate	Group	Optional	Single		
Date	Group	Required	Single		
Year	Element	Required	Single	2002	
Month	Element	Required	Single	7	
Day	Element	Required	Single	20	
Additional Text	Element	Optional	Multiple	Send 1st, 3rd and last signatures	
Supplied Component Info	Group	Optional	Multiple		
SuppliedComponentType	Attribute	Optional	Single	Raw Material	

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PO Use 1 - Stupid White Men (Text and Bind)					
	Type	Required	Occurrence	Status	
Supplier Party	Element	Required	Single		
Party Identifier	Element	Optional	Multiple	1234567	
Party Identifier Type	Attribute	Optional	Single	SAN	
Name Address	Group	Required	Single		
Name 1	Element	Required	Single	Harper Collins Publishers	
1 Product Identifier	Group	Required	Multiple	SEBG50225T	
Agency	Attribute	Required	Single	XBITS	
ProductIdentifierType	Attribute	Required	Single	Publisher ID	
1 Product Description	Element	Optional	Multiple	Sebago, roll size 22-1/2, 50#	
Classification	Group	Optional	Multiple		
ClassificationCode	Element	Required	Single	PAPER	
Agency	Attribute	Optional	Single	XBITS	
SuppliedComponentReference	Group	Optional	Multiple		
Quantity	Group	Optional	Single	See Quantity construct above	
QuantityType	Attribute	Required	Single	NetWeight	
QuantityTypeContext	Attribute	Required	Single	On Hand	
Value	Element	Required	Single	14300	
UOM	Attribute	Required	Single	Pounds	
1 PriceDetails	Group	Required	Multiple	Either PriceDetails or MonetaryAdjustment is optional.	
Price Quantity Basis	Attribute	Optional	Single	Count	
Price Tax Basis	Element	Optional	Single	No	

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PO Use 1 - Stupid White Men (Text and Bind)

	Type	Required	Occurrence	Status
CurrencyValue	Element	Optional	Single	8250
CurrencyType	Attribute	Optional	Single	USD
Price per Unit	Element	Optional	Single	0.55
Unit of Measure	Attribute	Optional	Single	Unit
Cost Account	Element	Optional	Single	630012
Agency	Attribute	Required	Single	BISAC
Quantity	Group	Required	Single	
QuantityType	Attribute	Required	Single	Count
QuantityTypeContext	Attribute	Required	Single	On Order
Value	Element	Required	Single	15000
UOM	Attribute	Required	Single	Unit
AdditionalText	Element	Optional	Multiple	UPDATE COPYRIGHT PAGE
PurchaseOrderLineItem	Group	Required	Multiple	
PurchaseOrderLineItemStatusType	Attribute	Required	Single	New
PurchaseOrderLineItemNumber	Element	Required	Single	2
Product	Group	Required	Multiple	
Product Identifier	Group	Required	Multiple	006039245228BIND
Agency	Attribute	Required	Single	XBITS
Product Identifier Type	Attribute	Required	Single	Publisher ID
Classification	Group	Optional	Multiple	
Classification Code	Attribute	Required	Single	BIND
Agency	Attribute	Optional	Single	XBITS
Book Manufacturing	Group	Optional	Single	
Proof Informational Quantity	Group	Optional	Multiple	
Proof Type	Attribute	Optional	Single	Sample
Quantity	Group	Required	Single	
QuantityType	Attribute	Required	Single	Count
QuantityTypeCo	Attribute	Required	Single	Sample

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PO Use 1 - Stupid White Men (Text and Bind)		Type	Required	Occurrence	Status
	nText				
	Value	Element	Required	Single	2
	UOM	Attribute	Required	Single	Books
Other Party		Group	Optional	Single	
	Party Identifier	Element	Optional	Multiple	123-4567
	Party Identifier Type	Attribute	Optional	Single	SAN
	Name Address	Group	Required	Single	
	Name 1	Element	Required	Single	Harper Collins Publishers
	Common Contact	Group	Optional	Multiple	
	Contact Type	Element	Required	Single	BUYER
	Name	Element	Required	Single	Iris Schneider
Supplied Component Info		Group	Optional	Multiple	
	SuppliedComponentType	Attribute	Optional	Single	Component
Supplier Party		Element	Required	Single	
	Party Identifier	Element	Optional	Multiple	179-650X
	Party Identifier Type	Attribute	Optional	Single	SAN
	Name Address	Group	Required	Single	
	Name 1	Element	Required	Single	Coral Graphics
1 Product Identifier		Group	Required	Multiple	006039245228JACKET
	Agency	Attribute	Required	Single	XBITS
	ProductIdentifierType	Attribute	Required	Single	Publisher ID
Classification		Group	Optional	Multiple	
	ClassificationCode	Element	Required	Single	JACKET
	Agency	Attribute	Optional	Single	XBITS
SuppliedComponentReference		Group	Optional	Multiple	C-01056068
	Reference Type	Attribute	Optional	Multiple	Component PO Number

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PO Use 1 - Stupid White Men (Text and Bind)

	Type	Required	Occurrence	Status
Quantity	Group	Required	Single	
QuantityType	Attribute	Required	Single	Each
QuantityTypeContext	Attribute	Required	Single	Ordered
Value	Element	Required	Single	15000
UOM	Attribute	Required	Single	Unit
Component Ship Date	Group	Optional	Single	
Date	Group	Required	Single	
Year	Element	Required	Single	2002
Month	Element	Required	Single	7
Day	Element	Required	Single	20
Component Due Date	Group	Optional	Single	
Date	Group	Required	Single	
Year	Element	Required	Single	2002
Month	Element	Required	Single	7
Day	Element	Required	Single	23
1 PriceDetails	Group	Required	Multiple	Either PriceDetails or MonetaryAdjustment is optional.
Price Quantity Basis	Attribute	Optional	Single	Count
Price Tax Basis	Element	Optional	Single	No
CurrencyValue	Element	Optional	Single	5550
CurrencyType	Attribute	Optional	Single	USD
Price per Unit	Element	Optional	Single	0.37
UOM	Attribute	Optional	Single	Unit
Cost Account	Element	Optional	Single	40322
Agency	Attribute	Required	Single	BISAC
Quantity	Group	Required	Single	

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PO Use 1 - Stupid White Men (Text and Bind)				
	Type	Required	Occurrence	Status
QuantityType	Attribute	Required	Single	Count
QuantityTypeContext	Attribute	Required	Single	On Order
Value	Element	Required	Single	15000
UOM	Attribute	Required	Single	Unit
AdditionalText	Element	Optional	Multiple	If necessary to meet warehouse date, Rainbow BB Teal can be used on the spine & Rainbow
AdditionalText	Element	Optional	Multiple	Antique B Orange can be used on the sides. DO NOT use Black over Black for the cases anymore.
PurchaseOrderSummary	Group	Required	Single	
TotalNumberOfLineItems	Element	Required	Single	2
1 TotalQuantity	Group	Required	Single	
QuantityType	Attribute	Required	Single	Count
QuantityTypeContext	Attribute	Required	Single	On Order
Value	Element	Required	Single	30000
UOM	Attribute	Required	Single	Unit
TotalAmount	Group	Optional	Single	
CurrencyValue	Element	Required	Single	13800
CurrencyType	Attribute	Required	Single	USD

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Appendix C – Purchase Order Template

Purchase Order Template		Type	Required	Occurrence	Status
PurchaseOrder		Root			
	PurchaseOrderType	Attribute	Required	Single	"Reservation", "Confirming", "Standard", "Release", "Trial", "Blanket", "Consumption"
	PurchaseOrderStatusType	Attribute	Required	Single	"Original", "Amended", "Cancelled"
	Reissued	Attribute	Optional	Single	
	Language	Attribute	Optional	Single	
	PurchaseOrderHeader	Group	Required	Single	
	PurchaseOrderHeaderStatusType	Attribute	Required	Single	"New", "Amended", Cancelled", "NoAction"
	PurchaseOrderInformation	Group	Required	Single	
	Purchase Order Number	Element	Required	Single	
	Purchase Order Release Number	Element	Optional	Single	
	Purchase Order Issued Date	Element	Optional	Single	

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Purchase Order Template

	Type	Required	Occurrence	Status
Purchase Order Reference	Element	Optional	Multiple	
Purchase Order Reference Type	Attribute	Optional	Single	
TransactionHistoryNumber	Element	Optional	Single	
BuyerParty	Group	Required	Single	Sample Party construct
Party Identifier	Element	Optional	Multiple	
Party Identifier Type	Attribute	Optional	Single	Duns, SAN, etc.
Name Address	Group	Required	Single	
Communication Role	Element	Optional	Single	
Name 1	Element	Required	Single	Company name
Name 2	Element	Optional	Single	
Name 3	Element	Optional	Single	
Organization Unit	Element	Optional	Single	
Address 1	Element	Optional	Single	
Address 2	Element	Optional	Single	
Address 3	Element	Optional	Single	
Address 4	Element	Optional	Single	
City	Element	Optional	Single	
County	Element	Optional	Single	
State or Province	Element	Optional	Single	

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Purchase Order Template

	Type	Required	Occurrence	Status
Postal Code	Element	Optional	Single	
Country	Element	Optional	Single	
URL	Element	Optional	Single	
Common Contact	Group	Optional	Multiple	
Contact Type	Element	Required	Single	
Name	Element	Required	Single	
Telephone	Element	Optional	Single	
Mobile Phone	Element	Optional	Single	
email	Element	Optional	Single	
Fax	Element	Optional	Single	
Bill to Party	Group	Optional	Single	Party construct. See BuyerParty
SupplierParty	Group	Required	Single	Ditto
OtherParty	Group	Optional	Multiple	Ditto
SenderParty	Group	Optional	Single	Ditto
ReceiverParty	Group	Optional	Multiple	Ditto
ShipToCharacteristics	Group	Required	Single	
ShipToPart y	Group	Required	Single	Party construct. See BuyerParty
TermsOfDeliver y	Group	Optional	Single	

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Purchase Order Template

	Type	Required	Occurrence	Status
1 IncotermsLocation	Group	Optional	Single	
1 ShipmentMethodOfPayment	Element	Optional	Single	
LocationQualifier	Attribute	Optional	Single	
Method	Attribute	Optional	Single	
FreightPayableAt	Group	Optional	Single	
AdditionalText	Group	Optional	Multiple	
DeliveryRouteCode	Element	Optional	Single	
Agency	Attribute	Optional	Single	
Other Date	Group	Optional	Multiple	
Date Type	Attribute	Required	Single	
Date	Group	Required	Single	
Year	Element	Required	Single	
Month	Element	Required	Single	
Day	Element	Required	Single	
TransportModeCharacteristics	Group	Optional	Single	
TransportVehicleCharacteristics	Group	Optional	Single	
TransportUnitCharacteristics	Group	Optional	Single	
TransportLoadingCharacteristics	Group	Optional	Single	
TransportOtherInstructions	Group	Optional	Multiple	
TermsOfPayment	Group	Optional	Multiple	

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Purchase Order Template					
	Type	Required	Occurrence	Status	
AdditionalText	Element	Optional	Multiple		
PurchaseOrderLineItem	Group	Required	Multiple		
PurchaseOrderLineItemStatusType	Attribute	Required	Single	"New", "Amended", "Cancelled", "NoAction"	
PurchaseOrderLineItemNumber	Element	Required	Single		
PurchaseOrderReference	Group	Optional	Multiple	Same as in Header	
Product	Group	Required	Multiple		
Product Identifier	Group	Required	Multiple		
Agency	Attribute	Required	Single	"XBITS"	
Product Identifier Type	Attribute	Required	Single		
Product Description	Element	Optional	Multiple		
Classification	Group	Optional	Multiple		
Classification Code	Attribute	Required	Single	Component list	
Agency	Attribute	Optional	Single	"XBITS"	
Classification Description	Element	Optional	Multiple		
Book Manufacturing	Group	Optional	Single		
Proof Informational Quantity	Group	Optional	Multiple	From Book- Manufacturing within Product	

Book PurchaseOrder Documentation papiNet Standard - Version 2.20

Purchase Order Template

	Type	Required	Occurrence	Status
Proof Type	Attribute	Optional	Single	
Quantity	Group	Required	Single	
QuantityType	Attribute	Required	Single	"Count"
QuantityTypeContext	Attribute	Required	Single	"On Hand", "Vendor Supplied", "On Order", "Confirmation", "Sample"
Adjustment Type	Element	Optional	Single	
Value	Element	Required	Single	
UOM	Attribute	Required	Single	"Unit"
RangeMin	Element	Optional	Single	
UOM	Attribute	Required	Single	
RangeMax	Element	Optional	Single	
UOM	Attribute	Required	Single	
InformationalQuantity	Group	Optional	Multiple	See Quantity above
Other Party	Group	Optional	Single	Party construct. See BuyerParty
ProofApprovalDate	Group	Optional	Single	Date construct - see OtherDate

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Purchase Order Template

	Type	Required	Occurrence	Status
ProofDueDate	Group	Optional	Single	Date construct - see OtherDate
Additional Text	Element	Optional	Multiple	
Supplied Component Info	Group	Optional	Multiple	From Book-Manufacturing within Product
SuppliedComponentType	Attribute	Optional	Single	"Component" or "Raw Material"
Supplier Party	Element	Required	Single	Party construct. See BuyerParty
1 Product Identifier	Group	Required	Multiple	
Agency	Attribute	Required	Single	"XBITS"
ProductIdentifierType	Attribute	Required	Single	
1 Product Description	Element	Optional	Multiple	
Classification	Group	Optional	Multiple	
ClassificationCode	Element	Required	Single	Component list
Agency	Attribute	Optional	Single	"XBITS"
ClassificationDescription	Element	Optional	Multiple	
SuppliedComponentReference	Group	Optional	Multiple	
Quantity	Group	Optional	Single	See Quantity construct above

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Purchase Order Template

	Type	Required	Occurrence	Status
ComponentShipDate	Group	Optional	Single	Date construct - see OtherDate
ComponentDueDate	Group	Optional	Single	Date construct - see OtherDate
ComponentNeededDate	Group	Optional	Single	Date construct - see OtherDate
OrderStatusInformation	Group	Optional	Single	
OrderPrimaryStatus	Element	Required	Single	
OrderStatusCode	Attribute	Required	Single	
OrderSecondaryStatus	Element	Optional	Single	
AdditionalText	Element	Optional	Multiple	
Packaging Characteristics	Group	Optional	Single	From Book-Manufacturing within Product
CartonCharacteristics	Group	Required	Single	
CartonType	Attribute	Optional	Single	
Height	Group	Optional	Single	Value construct
Length	Group	Optional	Single	Value construct
Width	Group	Optional	Single	Value construct
Weight	Group	Optional	Single	Value construct
UnitsPerCarton	Group	Optional	Single	Value construct

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Purchase Order Template

	Type	Required	Occurrence	Status
LabelCharacteristics	Group	Optional	Multiple	
StencilCharacteristics	Group	Optional	Multiple	
WrapCharacteristics	Group	Optional	Single	
BandCharacteristics	Group	Optional	Single	
PalletPackagingCharacteristics	Group	Required	Single	
PackagingCode	Group	Optional	Single	
PackagingDescription	Group	Optional	Single	
WrapCharacteristics	Group	Optional	Single	
PalletCharacteristics	Group	Optional	Single	
BandCharacteristics	Group	Optional	Single	
LabelCharacteristics	Group	Optional	Multiple	
StencilCharacteristics	Group	Optional	Multiple	
MaximumHeight	Group	Optional	Single	
MaximumGrossWeight	Group	Optional	Single	
AdditionalText	Group	Optional	Multiple	
1 PriceDetails	Group	Optional	Multiple	
Price Quantity Basis	Attribute	Optional	Single	"Count"
Price Tax Basis	Element	Optional	Single	NA
PricePerUnit	Element	Optional	Single	
CurrencyValue	Attribute	Optional	Single	"USD"

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Purchase Order Template

	Type	Required	Occurrence	Status
Value	Element	Optional	Single	
UOM	Attribute	Optional	Single	"Unit"
Informational Price per Unit	Group	Optional	Single	
Additional Text	Element	Optional	Single	
Exchange Rate	Group	Optional	Single	
Monetary Adjustment	Group	Optional	Multiple	
GeneralLedgerAccount	Element	Optional	Single	
Agency	Attribute	Optional	Single	
Monetary Adjustment	Group	Optional	Multiple	
MillCharacteristics	Group	Optional	Single	
Quantity	Group	Required	Single	
QuantityType	Attribute	Required	Single	"Count"
QuantityTypeContext	Attribute	Required	Single	"On Hand", "Vendor Supplied", "On Order", "Confirmation", "Sample"
Adjustment Type	Element	Optional	Single	
Value	Element	Required	Single	
UOM	Attribute	Required	Single	"Unit"

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Purchase Order Template					
		Type	Required	Occurrence	Status
RangeMin		Element	Optional	Single	
	UOM	Attribute	Required	Single	
RangeMax		Element	Optional	Single	
	UOM	Attribute	Required	Single	
InformationalQuantity		Group	Optional	Multiple	See Quantity construct
TotalBlanketOrderValue		Element	Optional	Single	
	CurrencyValue	Attribute	Required	Single	
ValidityPeriod		Group	Optional	Single	
	DateTimeFrom	Group	Optional	Single	
	DateTimeTo	Group	Optional	Single	
ProductionStatus		Element	Optional	Single	
	ProductionStatusType	Attribute	Required	Single	
	ProductionLastDateOfChange	Element	Optional	Single	
OtherDate		Group	Optional	Multiple	Date construct
ShipToCharacteristics		Group	Optional	Single	See construct in Header
OtherParty		Group	Optional	Multiple	Party construct. See BuyerParty
TransportModeCharacteristics		Group	Optional	Single	
TransportVehicleCharacteristics		Group	Optional	Single	

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Purchase Order Template				
	Type	Required	Occurrence	Status
TransportUnitCharacteristics	Group	Optional	Single	
TransportLoadingCharacteristics	Group	Optional	Single	
TransportOtherInstructions	Group	Optional	Multiple	
DeliverySchedule	Group	Optional	Multiple	
AdditionalText	Element	Optional	Multiple	
Monetary Adjustment	Group	Optional	Multiple	
PurchaseOrderSummary	Group	Required	Single	
TotalNumberOfLineItems	Element	Required	Single	
1 TotalQuantity	Group	Required	Single	See Quantity construct
1 TotalInformationalQuantity	Group	Optional	Multiple	See Quantity construct
TotalAmount	Group	Optional	Single	
CurrencyValue	Element	Required	Single	
CurrencyType	Attribute	Required	Single	"USD"
TermsAndDisclaimers	Element	Optional	Multiple	