



papiNet

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

**Order Confirmation Documentation
Book Manufacturing**

Papinet Standard - Version 2.10

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Order Confirmation Documentation - Book Manufacturing papiNet Standard - Version 2.10

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Message Documentation

The Order Confirmation Message

Introduction

This document is designed for use within the Book Industry, consisting of publishers, printers, and component suppliers including paper. The described message is based upon the standard papiNet Order Confirmation message document, but customized to fit the Book 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>.

An Overview of the Order Confirmation Message

A seller sends an order confirmation message to a buyer after receiving a purchase order message from that buyer. The message contains a response to the conditions specified in the purchase order. A supplier may also send an order confirmation message to convey changes that the supplier has made in the order or to convey new information such as a Supplier Reference Number or Job Number.

The Scope of Order Confirmation Message

The order confirmation message can include:

- Confirmation or adjustment to the preceding purchase order message
- The supplier can include new data such as Supplier Reference (Job) Number when sent in response to a Purchase Order.
- The supplier can suggest alternative products only when there has been prior agreement with the buyer. Note that his usage is not recommended for Book Manufacturing.

Order Confirmation Message Types

The Order Confirmation does not have any special message types associated with it.

Order Confirmation Business Rules

General OrderConfirmation Business Rules

The following table lists the business rules that apply to an order confirmation message. For more information about the statuses mentioned in the rules, see the section on processing the order confirmation message.

Reference	Rule
ORC001	An OrderConfirmation message must contain a status type at the document, header, and line item levels.

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Reference	Rule
ORC002	The OrderConfirmation document status must be Accepted, Amended, Cancelled, or Rejected.
ORC003	The OrderConfirmationHeader status must be Accepted, Amended, NoAction, Pending, or Rejected.
ORC004	An OrderConfirmationLineItem status must be communicated. If the status of a line item is Pending this message will be followed up by at least one other OrderConfirmation message ultimately resulting in the status of the line item being either Accepted or Rejected.
ORC005	An OrderConfirmation message refers to only one PurchaseOrder.
ORC006	An OrderConfirmation message must have all the PurchaseOrderLineItem(s) from the original PurchaseOrder message.
ORC007	If the seller rejects information in the PurchaseOrderHeader, the OrderConfirmation document status will be set to Rejected. The seller must include a reason for the rejection in the OrderConfirmationHeaderStatusTypeText field.
ORC008	If the seller rejects information in a PurchaseOrderLineItem, the OrderConfirmationLineItem status will be set to Rejected. The seller must include a reason for the rejection in the OrderConfirmationLineItemStatusTypeText field.
ORC009	All purchase orders must be responded to with an OrderConfirmation.

Book Manufacturing OrderConfirmation Business Rules

Book Manufacturing has instituted this additional business rule. This business rule is in conformance with all General Business Rules.

Reference	Rule
ORC010	If the seller rejects information in a PurchaseOrderLineItem, the OrderConfirmation document status will be set to Rejected.

Processing the Order Confirmation Message

Message processing depends on the message type and on the values in status fields at the message, header, and line item levels. For the order confirmation message, there is only one message type. There are, however, status fields at all three levels. The status at the message level determines the possible statuses at the header and line item levels.

A seller must send an order confirmation message in response to each purchase order received. The status set at the message level of the order confirmation message indicates whether the seller has accepted the purchase

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order as a legal commitment between the two parties. The status set at the header level indicates whether the seller understands and agrees with the information communicated at the header level, while the statuses set at the line item level indicate whether the seller has committed to providing the line item(s) under the terms defined.

If the seller wants to accept a purchase order but request a change at the line item level, the status set at the message level and header level would be "Accepted", while the status set at the line item level would be "Amended".

Notes:

- Some buyers will cancel the purchase order unless the seller sends an order confirmation message within a specified timeframe. The defined time frame is the ValidityPeriod construct within the Purchase Order.
- When the order confirmation is sent to a party other than the original buyer the pricing information can be removed from the message before transmission.
- For Book Manufacturing, if any line item is rejected, the entire purchase order must be rejected. If any line item is Pending, the entire order must be set to Pending.
- For Book Manufacturing, all information sent with the purchase order must be returned to the buyer within the Order Confirmation message, unless other arrangements have been reached between trading partners.

After sending an order confirmation message with the status of "Accepted", a seller may need to change details of the agreement at either the header or line item level. Examples of details that might need to change include Bound Book Date. While the Order Confirmation message will allow such information to be passed using an Amended message, Book Manufacturing does not intend to use the message in this manner. Such requested changes are really status changes and should only appear in the Status message.

Status Values Used When Processing the OrderConfirmation Message

Level	Attribute	Value
Message	OrderConfirmation-StatusType	Accepted – Indicates that the purchase order is accepted as a binding commitment under the conditions/changes included in this message. Amended – Indicates that the seller has made changes to the conditions under which the seller will fulfil a previously accepted purchase order. Rejected – Indicates that the purchase order is not accepted.

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Level	Attribute	Value
		<p>Cancelled - Indicates that the buyer wants to cancel the message (and therefore the commitment between the parties)</p> <p>Pending - The seller cannot confirm one or more elements in the OrderConfirmationHeader or OrderConfirmationLineItem. Must be followed by an Accepted or Rejected status.</p> <p>NoAction - Used as part of an Amended message to indicate message elements that have no change.</p>

If the OrderConfirmationStatusType is "Accepted", OrderConfirmationHeaderStatusType and OrderConfirmationLineItemStatusType can be any of the following:

- "Accepted" - The seller has accepted all elements in the OrderConfirmationHeader or OrderConfirmationLineItem.
 - ✦ "Note that whenever the OrderConfirmationHeaderStatusType or the OrderConfirmationLineItem is "Rejected", the message as a whole must also have a status of "Rejected".
- "Amended" - The seller has amended one or more elements in the OrderConfirmationHeader or OrderConfirmationLineItem.
 - ✦ "Note that whenever the seller cannot confirm or reject one or more elements in the OrderConfirmationHeader or OrderConfirmationLineItem, the message as a whole must have a status of "Pending."
- "NoAction" - The seller has not amended the OrderConfirmationHeader or OrderConfirmationLineItem and therefore no action is necessary.

If the OrderConfirmationStatusType is "Rejected" then OrderConfirmationHeaderStatusType and OrderConfirmationLineItemStatusType must also be set to "Rejected". The purchase order is not in the seller's system.

If the OrderConfirmationStatusType is "Amended" then OrderConfirmationHeaderStatusType and OrderConfirmationLineItemStatusType can be any of the following:

- "Amended" - The seller has amended one or more elements in the OrderConfirmationHeader or OrderConfirmationLineItem.
- "NoAction" - The seller has not amended the OrderConfirmationHeader or OrderConfirmationLineItem and therefore no action is necessary.

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Book Manufacturing Industry Order Confirmation Processing Guidelines

The Book Manufacturing Industry will use the standard papiNet Order Confirmation message format, but with some differences in the usage rules. One such rule is that all information sent with the purchase order must be returned to the buyer within the Order Confirmation message, unless other arrangements have been reached between trading partners. For this reason we have described all purchase order fields within this document.

The major rule change for Book Manufacturing is the fact that the message level status must reflect any line item status other than "Accepted". In other words, if any line item status is "Pending" or "Rejected", then the message as a whole must be either "Pending" or "Rejected". If both are present at the line item, the message status should be Rejected.

Another significant rule change is that there should only be one Order Confirmation message per Purchase Order. We are not looking for amended messages with changes in dates or other information after the initial response. The buyer will not be expecting or accepting status or other data in the Order Confirmation message and will expect to find such information in other messages, such as the Status message. The supplier should not update the Reference field values sent by the buyer.

There is, however, new information that can and should be sent from the supplier to the buyer in the Order Confirmation message. This could include things such as the supplier Job Number, supplier Product identification for materials such as paper, and other pieces of information agreed upon by trading partners. These new pieces of information could be sent in the OrderConfirmationReference or other appropriate fields.

There are a number of fields in the Purchase Order that have been augmented with Book Manufacturing Industry values or created just for Book. Since these same fields are in the Order Confirmation message they are covered here.

One such field is OtherDate, created to support a wide variety of dates, such as Bound Book Date. The Purchase Order Reference field has been enlarged to contain fields such as Title. The value list for the associated 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.

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. We have used a

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common list of manufacturing components in the ClassificationCode field to actually define the component type in human readable format.

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.

Product	Element	Required	Multiple	
Product Identifier	Element	Required	Multiple	Unique ID
Product Identifier Type	Element	Required	Single	"Part Number"
Agency	Element	Optional	Single	"Buyer" or "Supplier"
Product Description	Element	Optional	Multiple	
Classification	Element	Optional	Multiple	
Classification Code	Element	Required	Single	Component name such as BIND
Agency	Element	Optional	Single	"XBITS"
Classification Description	Element	Optional	Multiple	

Product Description will contain any description desired by the buyer organization, 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 defined within the Book Industry Specification message, for example "BIND". The value "XBITS" will be used for the Agency, and Classification Description is blank.

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	Element	Optional	Single
ProofInformationalQuantity	Element	Optional	Multiple
SuppliedComponentInformation	Element	Optional	Multiple
PackagingCharacteristics	Element	Optional	Multiple

The PriceDetails element can be used to define multiple cost elements by using GeneralLedgerAccount with an Agency of "BISAC" Book Industry Cost

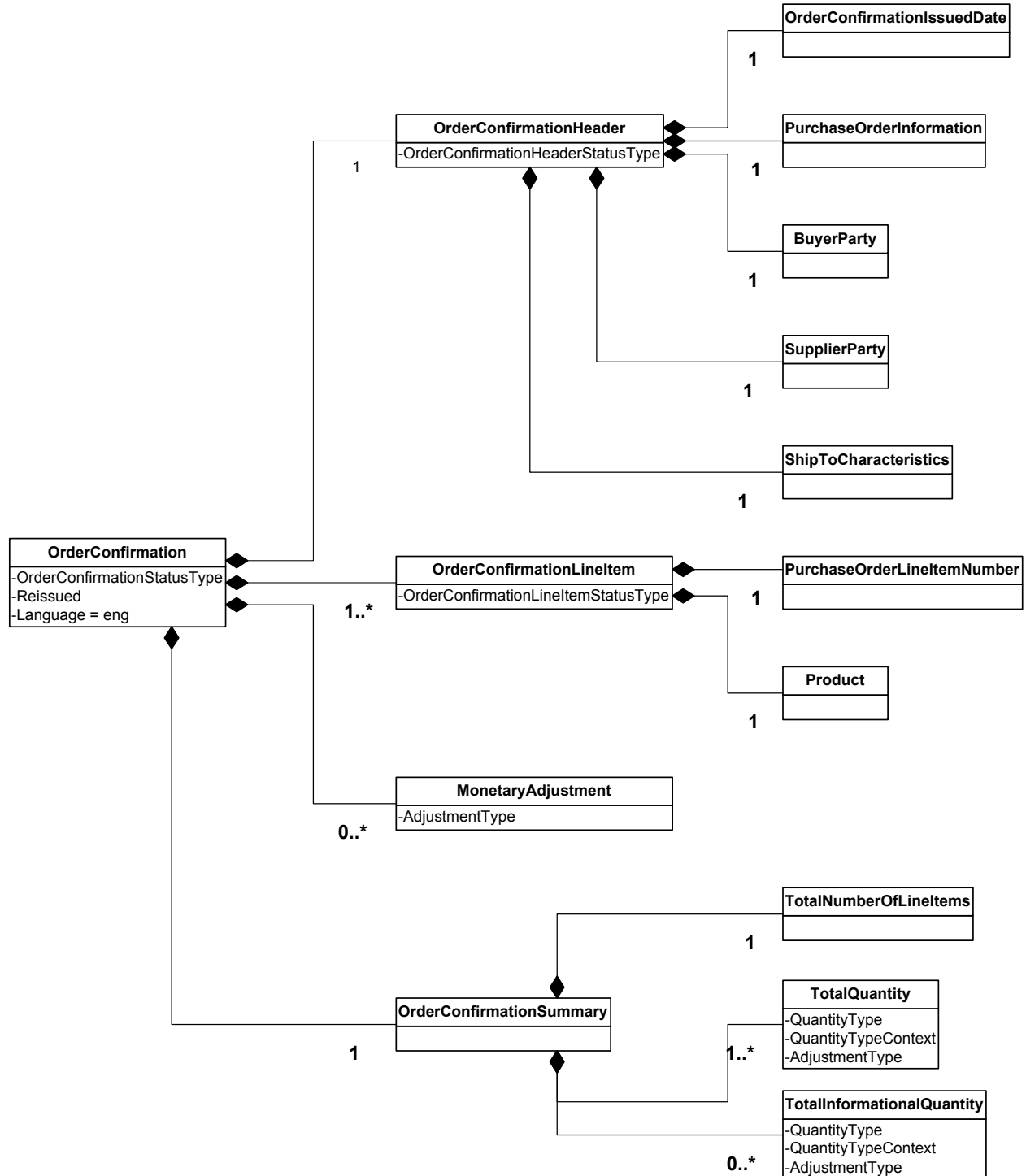
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Code values can be used to define the lowest level of costs. One of the tenants of this message is that the supplier will define costs at the lowest, most granular, level and it is up the receiver of the message to perform any aggregation and/or conversion to local account or cost codes.

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Graphical Overviews of the OrderConfirmation Message

High-level UML Diagram of Order Confirmation Message



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Overview of OrderConfirmation Structure

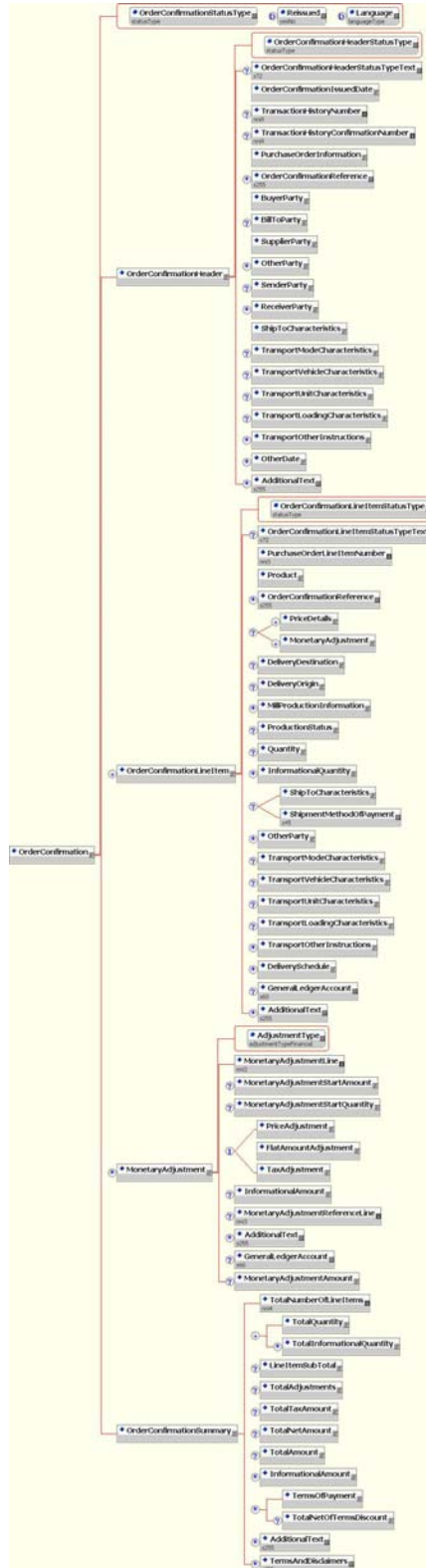
OrderConfirmation	Root		
@OrderConfirmationStatusType	Attribute	Required	Single
@Reissued	Attribute	Optional	Single
@Language	Attribute	Optional	Single
OrderConfirmationHeader	Element	Required	Single
@OrderConfirmationHeaderStatusType	Attribute	Required	Single
OrderConfirmationHeaderStatusTypeText	Element	Optional	Single
OrderConfirmationIssuedDate	Element	Required	Single
TransactionHistoryNumber	Element	Optional	Single
TransactionHistoryConfirmationNumber	Element	Optional	Single
PurchaseOrderInformation	Element	Required	Single
OrderConfirmationReference	Element	Optional	Multiple
BuyerParty	Element	Required	Single
BillToParty	Element	Optional	Single
SupplierParty	Element	Required	Single
OtherParty	Element	Optional	Multiple
SenderParty	Element	Optional	Single
ReceiverParty	Element	Optional	Multiple
ShipToCharacteristics	Element	Required	Single
TransportModeCharacteristics	Element	Optional	Single
TransportVehicleCharacteristics	Element	Optional	Single
TransportUnitCharacteristics	Element	Optional	Single
TransportLoadingCharacteristics	Element	Optional	Single
TransportOtherInstructions	Element	Optional	Multiple
AdditionalText	Element	Optional	Multiple
OrderConfirmationLineItem	Element	Required	Multiple
@OrderConfirmationLineItemStatusType	Attribute	Required	Single
OrderConfirmationLineItemStatusTypeText	Element	Optional	Single
PurchaseOrderLineItemNumber	Element	Required	Single
Product	Element	Required	Single
OrderConfirmationReference	Element	Optional	Multiple
PriceDetails	Element	Optional	Single
MonetaryAdjustment	Element	Optional	Multiple
DeliveryDestination	Element	Optional	Single
DeliveryOrigin	Element	Optional	Single
MillProductionInformation	Element	Optional	Single
ProductionStatus	Element	Optional	Single
Quantity	Element	Optional	Single
InformationalQuantity	Element	Optional	Multiple
or ShipToCharacteristics	Element	Optional	Single
ShipmentMethodOfPayment	Element	Optional	Single
OtherParty	Element	Optional	Multiple
TransportModeCharacteristics	Element	Optional	Single
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
OrderConfirmationSummary	Element	Required	Single
TotalNumberOfLineItems	Element	Required	Single
TotalQuantity	Element	Optional	Multiple
TotalInformationalQuantity	Element	Optional	Multiple

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LineItemSubTotal	Element	Optional	Single
TotalAdjustments	Element	Optional	Single
TotalAmount	Element	Required	Single
TotalTaxAmount	Element	Optional	Single
TotalNetAmount	Element	Optional	Single
InformationalAmount	Element	Optional	Multiple
TermsOfPayment	Element	Optional	Multiple
TotalNetOfTermsDiscount	Element	Optional	Multiple
AdditionalText	Element	Optional	Multiple
TermsAndDisclaimers	Element	Optional	Multiple

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Graphical Representation of the OrderConfirmation



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OrderConfirmation Message – Structure and Processing Logic

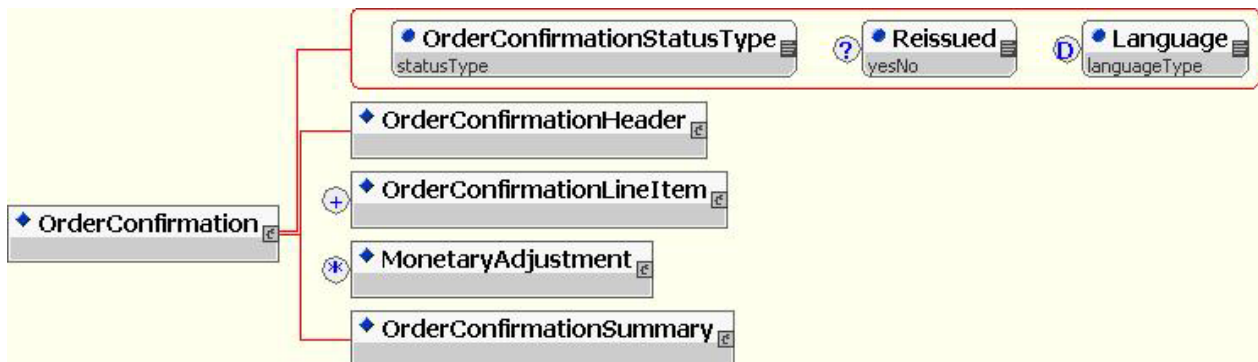
This section provides a detailed graphical view of the OrderConfirmation Schema structure; the OrderConfirmation root element, the OrderConfirmationHeader, the OrderConfirmationLineItem, MonetaryAdjustment and the OrderConfirmationSummary. Discussions of the subordinates to OrderConfirmation can be found in the Glossary document and a review of the data-types can be found in the Design document (available at www.papiNet.org). This section also contains a review of the processing logic that is special to the OrderConfirmation 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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OrderConfirmation Root



The OrderConfirmation document contains the following attributes:

[OrderConfirmationStatusType](#)

- ✧ Accepted
- ✧ Amended
- ✧ Cancelled
- ✧ Rejected

[Reissued](#) a required attribute that indicates whether the document is an original or a copy. When this attribute is omitted the document is not a copy – it is an original.

- ✧ Yes
- ✧ No

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

- ✧ Indicates the language for the content of the message.

OrderConfirmation contains the following elements:

[OrderConfirmationHeader](#)

[OrderConfirmationLineItem](#)

[MonetaryAdjustment](#)

[OrderConfirmationSummary](#)

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OrderConfirmationHeader

Required, single instance

Contains the following attribute:

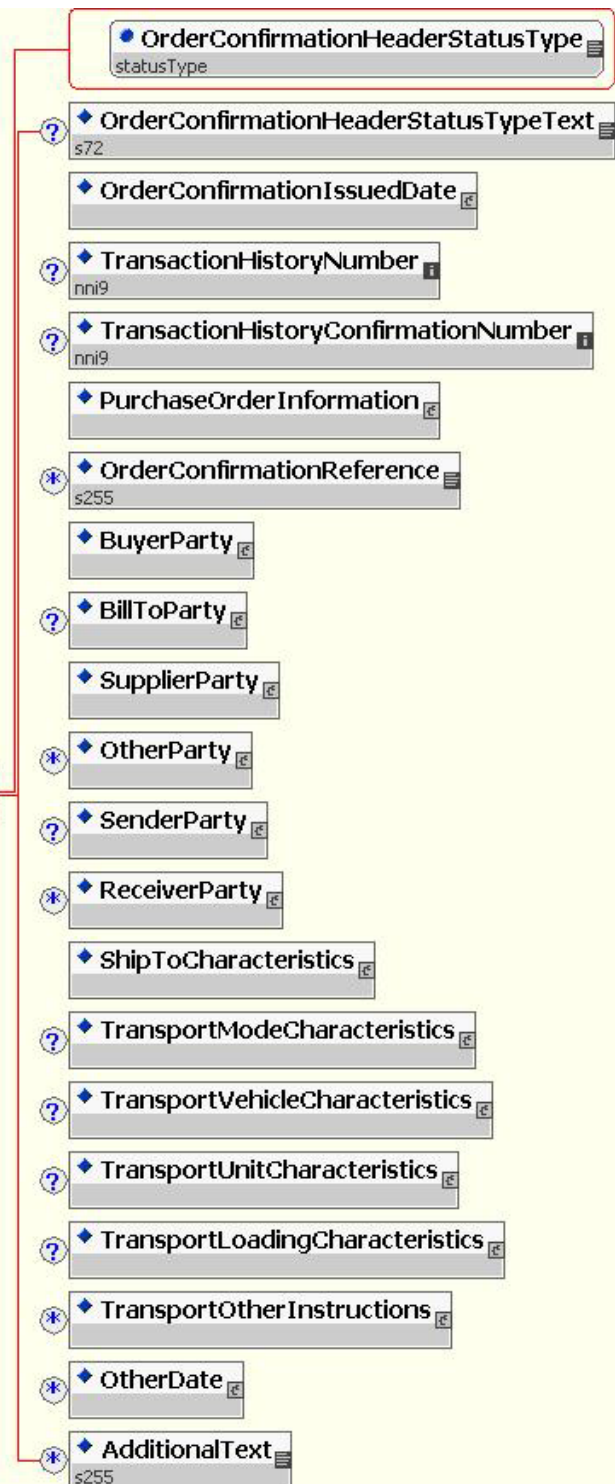
- [OrderConfirmationHeader-StatusType](#)
 - ✧ Accepted
 - ✧ Amended
 - ✧ NoAction
 - ✧ Pending
 - ✧ Rejected

Contains the following elements:

- [OrderConfirmationHeader-StatusTypeText](#)
- [OrderConfirmationIssuedDate](#)
- [TransactionHistoryNumber](#)
- [TransactionHistory-ConfirmationNumber](#)
- [PurchaseOrderInformation](#)
- [OrderConfirmationReference](#)



- [BuyerParty](#)
- [BillToParty](#)
- [SupplierParty](#)
- [OtherParty](#)
- [SenderParty](#)
- [ReceiverParty](#)
- [ShipToCharacteristics](#)
- [TransportModeCharacteristics](#)
- [TransportVehicle-Characteristics](#)
- [TransportUnitCharacteristics](#)
- [TransportLoading-Characteristics](#)
- [TransportOtherInstructions](#)
- [TermsOfPayment](#)
- [AdditionalText](#)



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OrderConfirmationLineItem

Required, multiple instances

OrderConfirmationLineItem contains the following attribute:

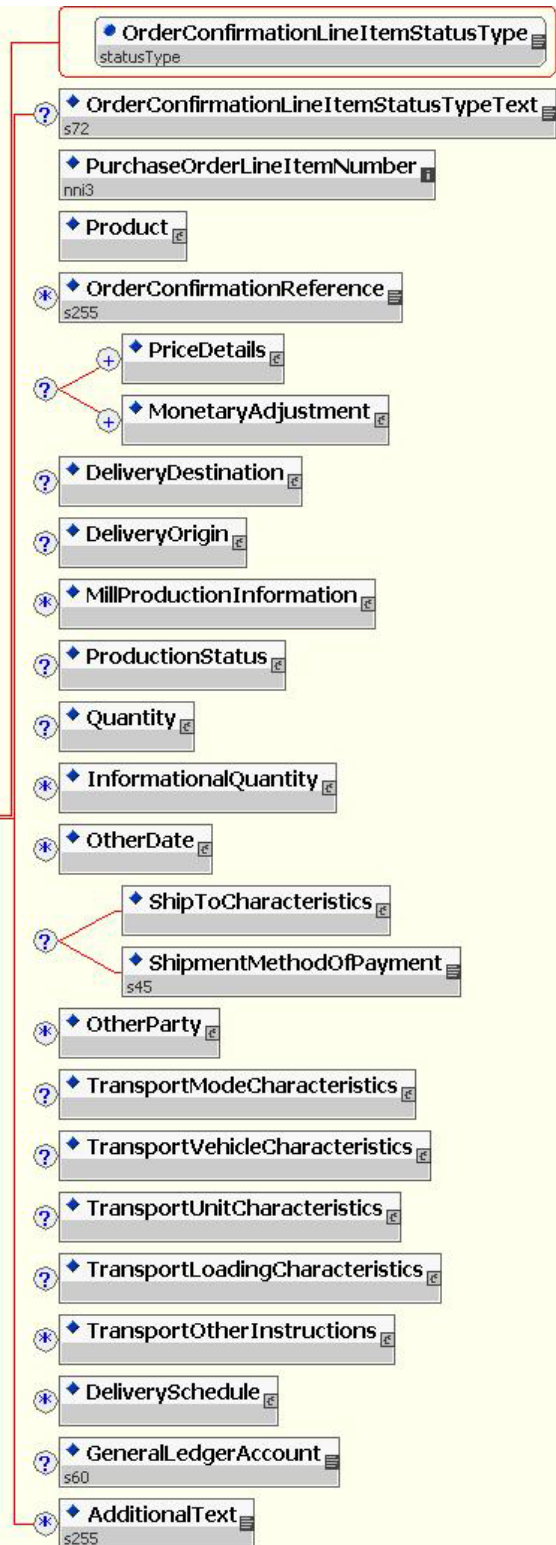
- [OrderConfirmation-LineItemStatusType](#)

OrderConfirmationLineItem contains the following elements:

- [OrderConfirmation-LineItemStatusTypeText](#)
- [PurchaseOrderLineItemNumber](#)
- [Product](#)
- [OrderConfirmationReference](#)
- [PriceDetails](#)
- [MonetaryAdjustment](#)
- [DeliveryDestination](#)
- [DeliveryOrigin](#)
- [MillProductionInformation](#)
- [ProductionStatus](#)
- [Quantity](#)
- [InformationalQuantity](#)
- [OtherDate](#)



- [InformationalQuantity](#)
- [OtherDate](#)
- [ShipToCharacteristics](#)
- [ShipmentMethodOfPayment](#)
- [OtherParty](#)
- [TransportModeCharacteristics](#)
- [TransportVehicleCharacteristics](#)
- [TransportUnitCharacteristics](#)
- [TransportLoadingCharacteristics](#)
- [TransportOtherInstructions](#)
- [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 the 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:

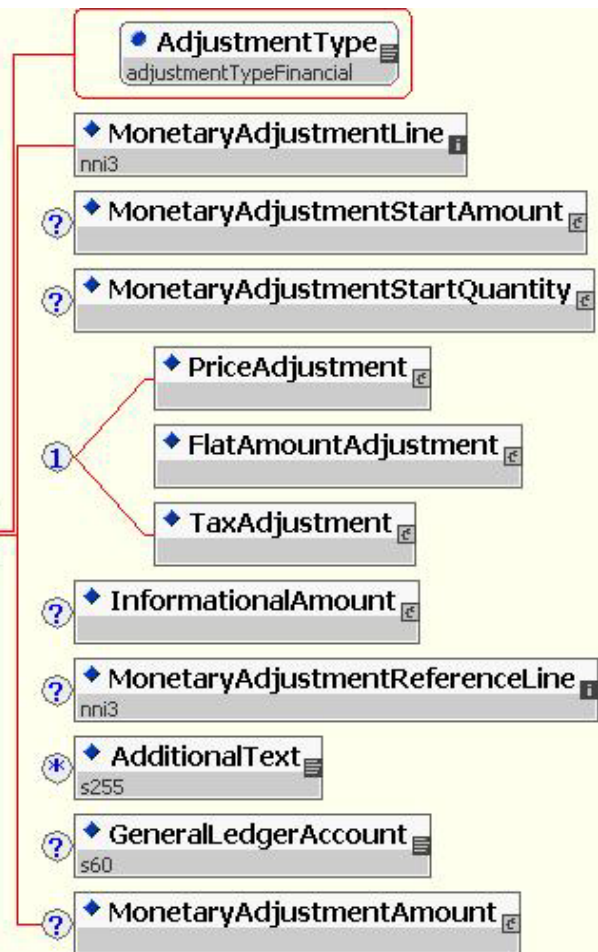
[InformationalAmount](#)

[MonetaryAdjustmentReferenceLine](#)

[AdditionalText](#)

[GeneralLedgerAccount](#)

[MonetaryAdjustmentAmount](#)



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OrderConfirmationSummary

OrderConfirmationSummary is a required, single instance element

Contains the following:

[TotalNumberOfLineItems](#)

[TotalQuantity](#)

[TotalInformationalQuantity](#)

[LineItemSubTotal](#)

[TotalAdjustments](#)

[TotalTaxAmount](#)

[TotalNetAmount](#)

[TotalAmount](#)

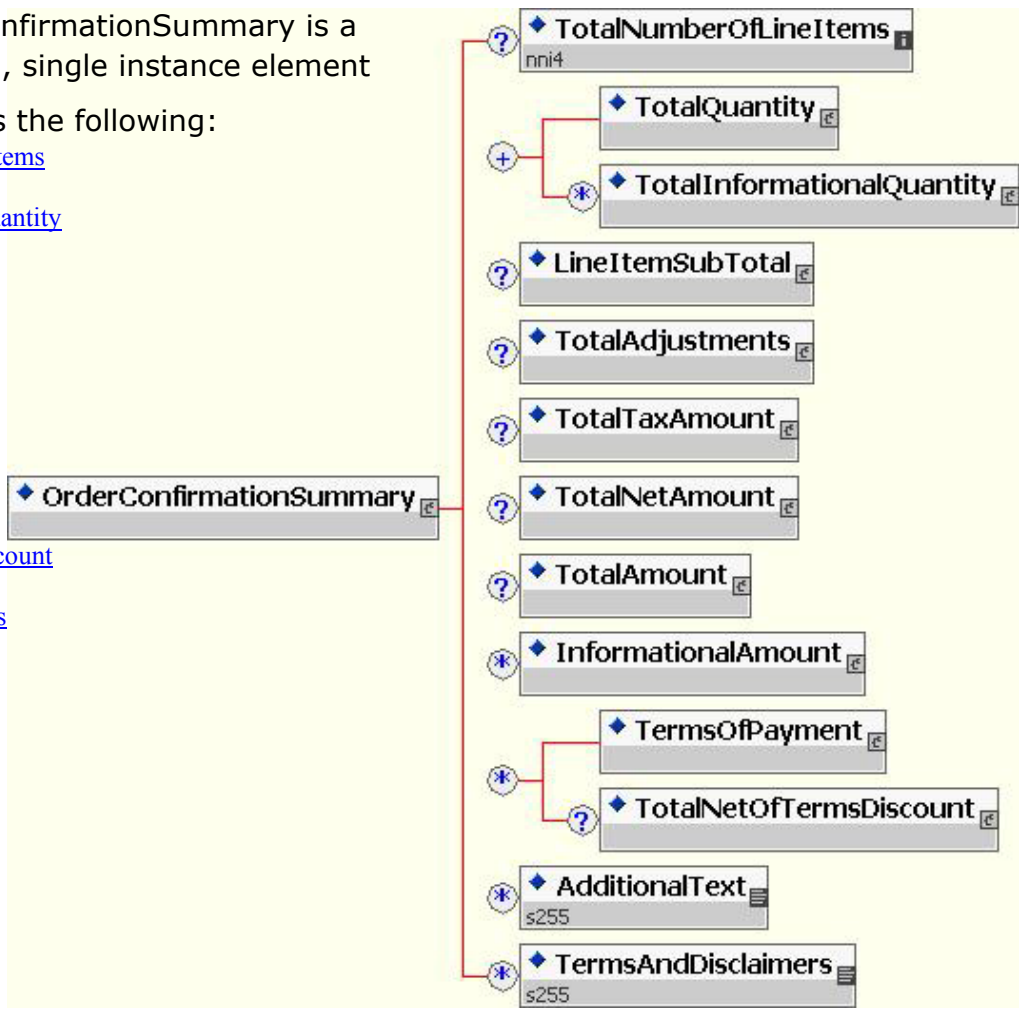
[InformationalAmount](#)

[TermsOfPayment](#)

[TotalNetOfTermsDiscount](#)

[AdditionalText](#)

[TermsAndDisclaimers](#)



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OrderConfirmation Business Use Cases

<u>Scenario A</u>	Buyer issues a single-line PurchaseOrder that is Pending by Supplier specifying the reason (optional) and then is later Accepted by the Supplier.
<u>Scenario B</u>	Buyer issues a PurchaseOrder that contains a change to Header information.
<u>Scenario C</u>	Buyer issues a multi-line PurchaseOrder with all line items Accepted by the Supplier.
<u>Scenario D</u>	Buyer issues a multi-line PurchaseOrder with all line items Rejected by the Supplier
<u>Scenario E</u>	Buyer issues a multi-line item PurchaseOrder and Supplier responds with 2 Accepted line items and 1 Rejected line items. Buyer only pursues the accepted items.
<u>Scenario F</u>	Buyer issues multi-line PurchaseOrder and the Supplier responds by accepting some line items and rejecting others. Buyer modifies the rejected line items and sends an Amended Purchase Order.
<u>Scenario G</u>	Buyer issues multi-line PurchaseOrder and Supplier responds by accepting some line items, rejecting some items, and pending others. Buyer modifies the rejected line items and sends an Amended Purchase Order.
<u>Scenario H</u>	Supplier initiates a change to a PurchaseOrder that had been previously Accepted.

Book Manufacturing Special Instructions

Note that there are some scenarios that allow for individual line items to be rejected while the purchase order as a whole is accepted. While this is not the desired response within the Book Industry, it is a function of the message and there are possible circumstances where this could be used. Individual trading partners may elect not to allow this circumstance and instead agree that if any line item is rejected the whole purchase order is rejected.

It is also important to realize that a message that is accepted may have amendments at the Line item level.

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Scenario A

Message	Order Confirmation
Business Scenario	<p>Buyer issues a single-line PurchaseOrder that is returned by the Supplier as Pending. The Supplier may specify the reason (optional). Later the Supplier accepts the item.</p> <pre> sequenceDiagram participant Buyer as : BuyerParty participant Supplier as : SupplierParty Buyer->>Supplier: Receive Purchase Order() Supplier-->>Buyer: BusinessAcknowledgement Buyer->>Supplier: Receive OrderConfirmation with Pending Line Item() Supplier-->>Buyer: BusinessAcknowledgement Buyer->>Supplier: Receive OrderConfirmation() Supplier-->>Buyer: BusinessAcknowledgement </pre>
Outcome	Purchase Order is entered into Supplier's system
Initiator	Buyer
Receiver	Supplier
Preconditions	None
Trigger	Customer issues a PurchaseOrder to a Supplier with a single line item.
Action 1	<p>Supplier returns an OrderConfirmation with a status of Pending for the line item, specifying the reason (optional for pending).</p> <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • OrderConfirmationStatusType = "Accepted" • OrderConfirmationHeaderStatusType = "Accepted" • OrderConfirmationLineItemStatusType = "Pending"
Action 2	<p>Supplier resolves the issue for the Pending status and sends a follow-up OrderConfirmation accepting the item specifying desired information</p> <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • OrderConfirmationStatusType = "Accepted" • OrderConfirmationHeaderStatusType = "NoAction" • OrderConfirmationLineItemStatusType = "Accepted"

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Scenario B

Message	Order Confirmation
Business Scenario	<p>Buyer issues an Amended PurchaseOrder that contains a change to Header information only.</p> <pre> sequenceDiagram participant Buyer as : BuyerParty participant Supplier as : SupplierParty Supplier->>Buyer: Receive Amended PurchaseOrder() Buyer->>Supplier: BusinessAcknowledgement Buyer->>Supplier: Receive OrderConfirmation() Supplier-->>Buyer: BusinessAcknowledgement </pre>
Outcome	The Purchase Order is changed in the Supplier's system
Initiator	Buyer
Receiver	Supplier
Preconditions	This Use Case assumes the Buyer has previously sent a PurchaseOrder to the Supplier and the Supplier has already Accepted the order.
Trigger	<p>Subsequently, the Buyer issues an Amended PurchaseOrder to a Supplier that contains a change to Header information.</p> <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • OrderConfirmationStatusType = "Amended" • OrderConfirmationHeaderStatusType = "Amended" • OrderConfirmationLineItemStatusType = "NoAction"
Action 1	<p>The Supplier returns an OrderConfirmation accepting the Header change.</p> <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • OrderConfirmationStatusType = "Accepted" • OrderConfirmationHeaderStatusType = "Accepted" • OrderConfirmationLineItemStatusType = "NoAction"

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Use Case C

Message	Order Confirmation
Business Scenario	<p>Buyer issues a multi-line PurchaseOrder with all line items Accepted by the Supplier.</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 entered into the Supplier's system.
Initiator	Buyer
Receiver	Supplier
Preconditions	None
Trigger	Buyer issues a PurchaseOrder to a Supplier with multiple line items.
Action 1	<p>Supplier returns an OrderConfirmation to the Buyer accepting each line item, specifying the following information for each line item:</p> <ul style="list-style-type: none"> • Supplier Reference Number (optional) • Supplier Delivery Window (optional) • Ship From Location (optional) • Last Date To Change (optional) • Freight Terms (optional) • Packaging Characteristics (optional) • Statuses sent within the message: <ul style="list-style-type: none"> • OrderConfirmationStatusType = "Accepted" • OrderConfirmationHeaderStatusType = "Accepted" • OrderConfirmationLineItemStatusType(s) = "Accepted"

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Scenario D

Message	Order Confirmation
Business Scenario	<p>Buyer issues a multi-line PurchaseOrder with all line items Rejected 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 Supplier-->>Buyer: Receive OrderConfirmation Rejecting PO() activate Buyer Buyer-->>Supplier: BusinessAcknowledgement deactivate Buyer </pre>
Outcome	The Purchase Order is not entered into the Supplier's system.
Initiator	Buyer
Receiver	Supplier
Preconditions	None
Trigger	Buyer issues a PurchaseOrder to a Supplier.
Action 1	<p>Supplier returns an OrderConfirmation rejecting each line item. The supplier must specify the reason(s) for the rejection in the OrderConfirmationLineItemStatusTypeText field. Line items can be rejected for multiple reasons. For example: Delivery date window, qty., core types, or sizes. Since all line item(s) were Rejected, the entire order was Rejected.</p> <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • OrderConfirmationStatusType = "Rejected" • OrderConfirmationHeaderStatusType = "Rejected" • OrderConfirmationLineItemStatusType(s) = "Rejected"

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Scenario E

Message	Order Confirmation
Business Scenario	<p>Rejected line items. Buyer only pursues the accepted items.</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 Rejecting Some Lines() activate Supplier Supplier-->>Buyer: BusinessAcknowledgement deactivate Supplier </pre>
Outcome	Purchase Order with two line items is created on Supplier's system.
Initiator	Buyer
Receiver	Supplier
Preconditions	None
Trigger	Buyer issues a PurchaseOrder to a Supplier with multiple line items.
Action 1	<p>Supplier returns an OrderConfirmation accepting 2 line items, specifying desired information for each accepted line item.</p> <p>Supplier rejects 1 line item. Supplier must specify the reason(s) for the rejection in the OrderConfirmationLineItemStatusTypeText field. Line items can be Rejected for multiple reasons. For example: delivery date window, quantity, core types or sizes.</p> <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • OrderConfirmationStatusType = "Accepted" • OrderConfirmationHeaderStatusType = "Accepted" • OrderConfirmationLineItemStatusType (1) = "Accepted" • OrderConfirmationLineItemStatusType (2) = "Accepted" • OrderConfirmationLineItemStatusType (3) = "Rejected"
Action 2	Buyer receives the OrderConfirmation message, and decides to pursue the Rejected line item in some other fashion.
Action 3	Buyer deletes the Rejected item for the PurchaseOrder in their ERP system.
Action 4	No other message needs to be sent.

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Scenario F

Message	Order Confirmation
Business Scenario	<p>Buyer issues multi-line PurchaseOrder and the Supplier responds by accepting some line items and rejecting others. Buyer modifies the Rejected line items and sends an Amended PurchaseOrder.</p> <pre> sequenceDiagram participant Buyer as : BuyerParty participant Supplier as : SupplierParty Buyer->>Supplier: Receive Purchase Order() Supplier-->>Buyer: BusinessAcknowledgement Supplier-->>Buyer: Receive OrderConfirmation Rejecting Some Lines() Buyer->>Supplier: Receive Amended PurchaseOrder() Supplier-->>Buyer: BusinessAcknowledgement Supplier-->>Buyer: Receive OrderConfirmation for Amended PO() Supplier-->>Buyer: BusinessAcknowledgement </pre>
Outcome	A three-line purchase order is created on the supplier's system.
Initiator	Buyer
Receiver	Supplier
Preconditions	
Trigger	Buyer issues a PurchaseOrder to a Supplier with multiple line items.
Action 1	<p>Supplier accepts some line items, specifying the desired information for each accepted line item.</p> <p>Supplier rejects some line items. The Supplier must specify the reason(s) for the rejection in the OrderConfirmationLineItemStatusTypeText field. Line items can be Rejected for multiple reasons. For example: delivery date window, quantity, core types or sizes.</p> <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • OrderConfirmationStatusType = "Accepted" • OrderConfirmationHeaderStatusType = "Accepted" • OrderConfirmationLineItemStatusType (1) = "Accepted" • OrderConfirmationLineItemStatusType (2) = "Accepted" • OrderConfirmationLineItemStatusType (3) = "Rejected"

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Action 2	Buyer modifies the Rejected line items.
Action 3	<p>Buyer sends an Amended PurchaseOrder to the Supplier.</p> <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • PurchaseOrderStatusType = "Amended" • PurchaseOrderHeaderStatusType = "NoAction" • PurchaseOrderLineItemStatusType (1) = "NoAction" • PurchaseOrderLineItemStatusType (2) = "NoAction" • PurchaseOrderLineItemStatusType (3) = "Amended"
Action 4	Supplier reviews and accepts the changes.
Action 5	<p>Supplier returns an OrderConfirmation to the Buyer.</p> <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • OrderConfirmationStatusType = "Accepted" • OrderConfirmationHeaderStatusType = "NoAction" • OrderConfirmationLineItemStatusType (1) = "NoAction" • OrderConfirmationLineItemStatusType (2) = "NoAction" • OrderConfirmationLineItemStatusType (3) = "Amended"

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Scenario G

Message	Order Confirmation
Business Scenario	<p>Buyer issues multi-line PurchaseOrder and Supplier responds by accepting some line items, rejecting some items, and pending others. Buyer modifies the Rejected line items and sends an Amended PurchaseOrder.</p> <pre> sequenceDiagram participant Buyer as : BuyerParty participant Supplier as : SupplierParty Buyer->>Supplier: Receive Purchase Order() Supplier-->>Buyer: BusinessAcknowledgement Buyer->>Supplier: Receive OrderConfirmation Rejecting Some Lines() Supplier-->>Buyer: BusinessAcknowledgement Buyer->>Supplier: Receive Amended PurchaseOrder() Supplier-->>Buyer: BusinessAcknowledgement Buyer->>Supplier: Receive OrderConfirmation for Amended PO() Supplier-->>Buyer: BusinessAcknowledgement </pre>
Outcome	A 3 line purchase order is created in the supplier's system.
Initiator	Buyer
Receiver	Supplier
Preconditions	None
Trigger	Buyer issues a PurchaseOrder to a Supplier with multiple line items.
Action 1	<p>Supplier accepts line item 1, specifying the desired information for the accepted line item.</p> <p>Supplier rejects line item 2. The Supplier specifies the reason for the rejection in the OrderConfirmationLineItemStatusTypeText field.</p> <p>Supplier puts line item 3 into Pending status. The Supplier may specify the reason for the Pending status in the OrderConfirmationLineItemStatusTypeText field.</p> <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • OrderConfirmationStatusType = "Accepted" • OrderConfirmationHeaderStatusType = "Accepted" • OrderConfirmationLineItemStatusType (1) = "Accepted" • OrderConfirmationLineItemStatusType (2) = "Rejected" • OrderConfirmationLineItemStatusType (3) = "Pending"

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Action 2	Buyer receives the OrderConfirmation message, and modifies the Rejected line item.
Action 3	Buyer sends an Amended PurchaseOrder to the Supplier. Statuses sent within the message: <ul style="list-style-type: none"> • PurchaseOrderStatusType = "Amended" • PurchaseOrderHeaderStatusType = "NoAction" • PurchaseOrderLineItemStatusType (1) = "NoAction" • PurchaseOrderLineItemStatusType (2) = "Amended" • PurchaseOrderLineItemStatusType (3) = "NoAction"
Action 4	Supplier accepts the changes.
Action 5	Supplier returns an OrderConfirmation to the Buyer. Statuses sent within the message: <ul style="list-style-type: none"> • OrderConfirmationStatusType = "Accepted" • OrderConfirmationHeaderStatusType = "NoAction" • OrderConfirmationLineItemStatusType (1) = "NoAction" • OrderConfirmationLineItemStatusType (2) = "Pending" • OrderConfirmationLineItemStatusType (3) = "Pending"
Action 6	Supplier has resolved the reason for the Pending line item.
Action 7	Supplier sends an OrderConfirmation to the Buyer accepting line item 3. Statuses sent within the message: <ul style="list-style-type: none"> • OrderConfirmationStatusType = "Accepted" • OrderConfirmationHeaderStatusType = "NoAction" • OrderConfirmationLineItemStatusType (1) = "NoAction" • OrderConfirmationLineItemStatusType (2) = "Accepted" • OrderConfirmationLineItemStatusType (3) = "Accepted"

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Scenario H

Message	Order Confirmation
Business Scenario	<p>Supplier initiates a change to a PurchaseOrder that had been previously Accepted.</p> <pre> sequenceDiagram participant Buyer as : BuyerParty participant Supplier as : SupplierParty Buyer->>Supplier: Receive Purchase Order() Buyer->>Supplier: BusinessAcknowledgement Supplier-->>Buyer: Receive OrderConfirmation() Buyer->>Supplier: BusinessAcknowledgement Buyer->>Supplier: Receive Amended PurchaseOrder() Buyer->>Supplier: BusinessAcknowledgement Supplier-->>Buyer: Receive OrderConfirmation for Amended PO() Buyer->>Supplier: BusinessAcknowledgement </pre>
Outcome	The purchase order is changed in the supplier's system.
Initiator	Supplier
Receiver	Buyer
Preconditions	This Use Case assumes the Buyer has previously sent a PurchaseOrder to the Supplier and the Supplier has already Accepted the order. The change can be either to the header, line items or both.
Trigger	<p>Supplier issues an Amended OrderConfirmation to the Buyer that suggests a change to the Header information.</p> <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • OrderConfirmationStatusType = "Amended" • OrderConfirmationHeaderStatusType = "Amended" • OrderConfirmationLineItemStatusType = "NoAction"
Action 1	<p>The Buyer accepts the changes by sending an Amended PurchaseOrder to the Supplier with the changes suggested by the Buyer.</p> <p>Statuses sent within the message:</p> <ul style="list-style-type: none"> • PurchaseOrderStatusType = "Amended" • PurchaseOrderHeaderStatusType = "Amended" • PurchaseOrderLineItemStatusType = "NoAction"
Action 2	The Supplier returns an OrderConfirmation with a status of Accepted for the document Header level.

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	Statuses sent within the message: <ul style="list-style-type: none">• OrderConfirmationStatusType = "Accepted"• OrderConfirmationHeaderStatusType = "Accepted"• OrderConfirmationLineItemStatusType = "NoAction"
--	--

Additional Information for OrderConfirmation Message

Processing an Order Confirmation message against a Book Manufacturing specific Purchase Order

We are going to use the sample PO in [Appendix A](#) to show how this data can be converted to the papiNet XML format of an Order Confirmation message. We will be able to demonstrate virtually all of the constructs.

The example is shown in an Excel table format in [Appendix B](#) labelled **OrderConfirmation Sample**. There is a blank template in the spreadsheet file included with this documentation. 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.

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.

It is the recommendation that the OrderConfirmation message return to the supplier all of the fields sent with the originating Purchase Order. Of course, trading partner agreements may alter this recommendation. 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 Order Confirmation message.

Order Confirmation Message

- **OrderConfirmationStatusType** is required and supports the values Accepted, Amended, Cancelled, and Rejected, and this instance is "Accepted".

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- 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 Order Confirmation Header.

Order Confirmation Header

- **OrderConfirmationHeaderStatusType** is required and supports the values Accepted, Amended, Rejected, Pending, and No Action, and this instance is "Accepted".
- **OrderConfirmationHeaderStatusTypeText** is an optional single element for capturing any information about the Order Confirmation response.
- **OrderConfirmationIssuedDate** is the date the order confirmation is issued.
- **TransactionHistoryNumber** is not supplied in this example and need not appear.
- **TransactionHistoryConfirmationNumber** is not supplied in this example and need not appear.
- **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 **PurchaseOrderReference** construct will store much of the Book Manufacturing Industry specific identifying information such as ISBN. The Reference field is 255 characters long. The **Type** field is an attribute of field descriptions.
- **Order Confirmation Reference** is the same construct as the above construct but contains references specific to this message. For instance, a supplier may want to indicate their Job Number for the requested work.
- There follows a number of "**Parties**". The full picture of this construct is not shown here; see the template in Appendix C. 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 DUN 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 within the ShipToCharacteristics construct

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- 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**
- 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.
- **AdditionalText** is a 255 character long field that is optional and multiple and is used for any non-fielded information that needs to appear at the header level. There will be similar fields also at the Line Item level.

Order Confirmation Line Item

The Line Item is required and can be one or more. There must be one for each line item on the Purchase order.

- **OrderConfirmationLineItemStatusType** is required and supports the values Accepted, Amended, Cancelled, Pending, Rejected, and No Action, and this instance is "Accepted".
- **OrderConfirmationLineItemStatusTypeText** is an optional single element for capturing any information about the Order Confirmation response.
- **PurchaseOrderLineItemNumber** is required and sequentially numbers the Line Items in the Purchase Order.
- **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	Element	Required	Multiple	
Product Identifier	Element	Required	Multiple	"Unique Print Component ID"
Product Identifier Type	Element	Required	Single	"Part Number"
Agency	Element	Optional	Single	"Buyer"

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Product Description	Element	Optional	Multiple	"Human readable component description from Specs"
Classification Code	Element	Required	Single	TEXT
Agency	Element	Optional	Single	"XBITS"
Book Manufacturing	Element	Optional	Single	

- Product Description will contain any description desired by the buyer organization, 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 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.

Book Manufacturing	Element	Optional	Single
ProofInformationalQuantity	Element	Optional	Multiple
SuppliedComponentInformation	Element	Optional	Multiple
Packaging Characteristics	Element	Optional	Multiple

- The **ProofInformationalQuantity** 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 the list of values.
 - ✧ **Quantity** – See the sample Quantity construct below. Note that 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 above

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.

Proof Informational Quantity	Element	Optional	Multiple	<i>New construct</i>
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Proof Type	Element	Optional	Single	"Blues"
Quantity				
Quantity Type	Element	Required	Single	"Count"
Quantity Type Context	Element	Required	Single	"Confirmation"
Value	Element	Required	Single	1
UOM	Element	Required	Single	Sets
InformationalQuantity	Element	Optional	Single	
Quantity Type	Element	Required	Single	"Count"
Quantity Type Context	Element	Required	Single	"Confirmation"
Value	Element	Required	Single	3
UOM	Element	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**.

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

PackagingCharacteristics is an optional construct and contains two elements, **BoxCharacteristics** and **PalletPackagingCharacteristics**. It

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is used as an override any standard packaging operating procedures already in place between trading partners.

BoxCharacteristics consists of a number of elements:

- **BoxType** as a string.
- **Height**, **Length**, **Width**, and **Weight** are all value constructs with minimum and maximums.
- **UnitsPerCarton** 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**.
- **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 consists of a number of elements:

- **PackagingCode** as a string.
- **PackagingDescription** as a string.
- **WrapCharacteristics** – see BoxCharacteristics.
- **PalletCharacteristics**, consists of **MixedProductPalletIndicator** which is a Yes/No field, and 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 Carton Characteristics.
- **LabelCharacteristics** – see Carton Characteristics.
- **StencilCharacteristics** – see Carton Characteristics.
- **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.

Of the two constructs **PriceDetails** and **MonetaryAdjustment** you must include one or the other construct or you may use both. The Book Manufacturing Industry recommends using PriceDetails.

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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.

MonetaryAdjustment This field could be needed at times, especially when ordering internationally. Details on the format can be found in the schema.

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 **Type**. This value will be the **Value** (Unit Price) times the Quantity to calculate the CurrencyValue and the Type will indicate the currency, which will be "USD" for most of us. The second element is the **Value** and **UOM**, representing the unit price and the values such as "Unit", or "HundredPound" for paper.

Below is an example of PriceDetails.

1 PriceDetails	Group	Required	Multiple	Either PriceDetails or MonetaryAdjustment is optional.
Price Quantity Basis	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
Unit of Measure	Attribute	Optional	Single	"Unit"
General Ledger Account	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** 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. Details on the format can be found in the schema.

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- **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.
- **DeliveryDestination** is a single optional element that specifies the end of one leg of a delivery.
- **DeliveryOrigin** is a single optional element that specifies the start of one leg of a delivery.
- **MillProductionInformation** 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 **Context**. QuantityType indicates the type of quantity being communicated, such as "Count" or "Tare Weight". Most of these values are oriented to the paper industry. For Book Manufacturing this will almost always be "Count". The **QuantityTypeContext** includes new values such as "On Order", "On Hand", "Confirmed", and "Example".

Below is an 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.

InformationalQuantity is an optional multiple construct with the same elements as Quantity. It is used to define any additional quantities as needed.

There is a choice between **ShipToCharacteristics** and **ShipmentMethodOfPayment** and Book Manufacturing will usually use the ShipToCharacteristics. It is similar in construct and use to the same field name in the Header. Note that this will override the Header ShipToCharacteristics values for this component or 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.

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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.

DeliverySchedule is an optional multiple group element defining a series of DeliveryDateWindow(s) in which specified quantities of a line item must be delivered.

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.

MonetaryAdjustment

MonetaryAdjustment This field could be needed at times, especially when ordering internationally. Details on the format can be found in the schema.

Order Confirmation Summary

The OrderConfirmationSummary 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.

There are a string of single optional total fields, of which Book Manufacturing would probably only use TotalAmount.

LineItemSubTotal
TotalAdjustments
TotalTaxAmount
TotalNetAmount
TotalAmount.

InformationalAmount is a multiple optional field.

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There is an optional multiple choice of **TermsOfPayment** or **TotalNetOfTermsDiscount**.

AdditionalText is an optional 255-character text field.

TermsAndDisclaimers is an optional 255-character text field.

This completes the detailed example of building an Order Confirmation message in response to a Book Manufacturing Industry purchase order using the papiNet message format.

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Appendicies

Appendix A - Sample 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

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	

Attn: PRODUCTION PERSON

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

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	*** 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: SEBG50225T 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	VF Production/Authorized by
			Date

VENDOR PRODUCTION FILE ACCOUNTS PAYABLE WAREHOUSE PAPER CONTROL SYSTEM INPUT

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Appendix B – Order Confirmation Sample

OrderConfirmation Sample

	Type	Required	Occurrence	Value
Order Confirmation	Root			
OrderConfirmationStatusType	Attribute	Required	Single	Accepted
PurchaseOrderHeader	Element	Required	Single	
OrderConfirmationHeaderStatusType	Attribute	Required	Single	Accepted
OrderConfirmationIssuedDate	Element	Required	Single	7/27/2002
PurchaseOrderInformation	Element	Required	Single	
Purchase Order Number	Element	Required	Single	F056065
Purchase Order Release Number	Element	Optional	Single	
Purchase Order Issued Date	Element	Required	Single	7/19/2002
Purchase Order Reference	Element	Optional	Multiple	0-06-039245-2
Purchase Order Reference Type	Element	Optional	Multiple	ISBN – 10 digits with dashes
Purchase Order Reference	Element	Optional	Multiple	28
Purchase Order Reference Type	Element	Optional	Multiple	Printing Number
Purchase Order Reference	Element	Optional	Multiple	5228
Purchase Order Reference Type	Element	Optional	Multiple	Buyer Job Number
PO Descriptive Reference	Element	Optional	Multiple	Stupid White Men
PO Descriptive Reference Type	Element	Optional	Multiple	Title Description
PO Descriptive Reference	Element	Optional	Multiple	Moore, Michael
PO Descriptive Reference Type	Element	Optional	Multiple	Author
PO Descriptive Reference	Element	Optional	Multiple	General Trade
PO Descriptive Reference Type	Element	Optional	Multiple	Buyer Division Identifier
PO Descriptive Reference	Element	Optional	Multiple	REGANBOOKS
PO Descriptive Reference Type	Element	Optional	Multiple	Buyer Imprint
PO Descriptive Reference	Element	Optional	Multiple	24.95 / 37.95
PO Descriptive Reference Type	Element	Optional	Multiple	Buyer Retail Price
BuyerParty Identifier	Element	Optional	Single	1234567

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OrderConfirmation Sample

	Type	Required	Occurrence	Value
Party Identifier Type	Element	Optional	Single	SAN
Name 1	Element	Required	Single	Harper Collins Publishers
Contact Type	Element	Optional	Single	BUYER
Name	Element	Optional	Single	Iris Schneider
BillToParty Identifier	Element	Optional	Single	1234567
Party Identifier Type	Element	Optional	Single	SAN
Name 1	Element	Required	Single	Harper Collins Publishers
SupplierParty Identifier	Element	Optional	Single	1796038
Party Identifier Type	Element	Optional	Single	SAN
Name 1	Element	Required	Single	Quebecor - Martinsburg
SenderParty Identifier	Element	Optional	Single	1234567
Party Identifier Type	Element	Optional	Single	SAN
Name 1	Element	Required	Single	Harper Collins Publishers
ReceiverParty Identifier	Element	Optional	Single	1796038
Party Identifier Type	Element	Optional	Single	SAN
Name 1	Element	Required	Single	Quebecor - Martinsburg
ShipToParty Identifier	Element	Optional	Single	12345670010
Party Identifier Type	Element	Optional	Single	SAN
Name 1	Element	Required	Single	Harper Collins Warehouse
Other Dates	Element	Optional	Multiple	
Date Type	Element	Optional	Multiple	Bound Book Date
Date	Group	Optional	Multiple	
Year	Element	Required	Single	2002

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OrderConfirmation Sample

	Type	Required	Occurrence	Value
Month	Element	Required	Single	7
Day	Element	Required	Single	26
OrderConfirmationLineItem	Element	Required	Multiple	
OrderConfirmationLineItemStatusType	Attribute	Required	Single	New
PurchaseOrderLineItemNumber	Element	Required	Single	1
Product	Element	Required	Multiple	
Product Identifier	Element	Required	Multiple	006039245228TEXT T
Product Identifier Type	Element	Required	Single	"Publisher ID"
Agency	Element	Optional	Single	"XBITS"
Classification Code	Element	Required	Single	TEXT
Agency	Element	Optional	Single	"XBITS"
Proof Informational Quantity	Element	Optional	Multiple	
Proof Type	Element	Optional	Single	"Blues"
Quantity				
Quantity Type	Element	Required	Single	"Ordered"
Quantity Type Context	Element	Required	Single	"Confirmation"
Value	Element	Required	Single	1
UOM	Element	Required	Single	Sets
InformationalQuantity	Element	Optional	Single	
Quantity Type	Element	Required	Single	"Ordered"
Quantity Type Context	Element	Required	Single	"Confirmation"
Value	Element	Required	Single	3
UOM	Element	Required	Single	"Signatures"
OtherParty Identifier	Element	Optional	Single	1234567
Party Identifier Type	Element	Optional	Single	SAN
Name 1	Element	Required	Single	Harper Collins Publishers
Contact Type	Element	Optional	Single	Designer

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OrderConfirmation Sample

	Type	Required	Occurrence	Value
Name	Element	Optional	Single	Elisa Dunne
ProofDueDate	Element	Optional	Single	
Date	Group	Optional	Multiple	2002
Year	Element	Required	Single	7
Month	Element	Required	Single	20
Day	Element	Required	Single	
Additional Text	Element	Optional	Multiple	Send 1st, 3rd and last signatures
SuppliedComponentInformation	Element	Optional	Multiple	
Supplied Component Type	Element	Optional	Single	"Raw Material"
Supplier Party Identifier	Element	Optional	Single	1234567
Party Identifier Type	Element	Optional	Single	SAN
Name 1	Element	Required	Single	Harper Collins Publishers
Product	Element	Required	Multiple	
Product Identifier	Element	Required	Multiple	SEBG50225T
Product Identifier Type	Element	Required	Single	"Publisher ID"
Product Description	Element	Optional	Multiple	Sebago, roll size 22-1/2", 50#
Classification Code	Element	Required	Single	PAPER
Agency	Element	Optional	Single	"XBITS"
Quantity	Element	Optional	Single	
Quantity Type	Element	Required	Single	Net Weight
Quantity Type Context	Element	Optional	Single	On Hand
Value	Element	Required	Single	14300
UOM	Element	Required	Single	Pounds
PriceDetails	Element	Optional	Multiple	
Price Quantity Basis	Element	Optional	Single	"Count"
Price Tax Basis	Element	Optional	Single	No

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OrderConfirmation Sample

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

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OrderConfirmation Sample

	Type	Required	Occurrence	Value
Quantity Type	Element	Required	Single	"Count"
QuantityTypeContext	Element	Required	Single	"On Hand", "Vendor Supplied", "On Order", "Confirmation", "Sample"
Value	Element	Required	Single	2
UOM	Element	Required	Single	Books
ShipToParty Identifier	Element	Optional	Single	1234567
Party Identifier Type	Element	Optional	Single	SAN
Name 1	Element	Required	Single	Harper Collins Publishers
Contact Type	Element	Optional	Single	BUYER
Name	Element	Optional	Single	Iris Schneider
SuppliedComponentInformation	Element	Optional	Multiple	
Supplied Component Type	Element	Optional	Single	"Component"
Supplier Party Identifier	Element	Optional	Single	179650X
Party Identifier Type	Element	Optional	Single	SAN
Name 1	Element	Required	Single	Coral Graphics
Product	Element	Required	Multiple	
Product Identifier	Element	Required	Multiple	006039245228JACKET
Product Identifier Type	Element	Required	Single	"Book Industry Value"
Classification Code	Element	Required	Single	JACKET
Agency	Element	Optional	Single	"XBITS"
SuppliedComponentReference	Element	Optional	Multiple	C-01056068
Reference Type	Element	Optional	Multiple	Component PO Number

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OrderConfirmation Sample

	Type	Required	Occurrence	Value
Quantity	Element	Optional	Single	
Quantity Type	Element	Required	Single	"Each"
QuantityTypeContext	Element	Required	Single	"Ordered"
Value	Element	Required	Single	15000
UOM	Element	Required	Single	"Unit"
Component Ship Date	Element	Optional	Single	
Date	Group	Required	Single	
Year	Element	Required	Single	2002
Month	Element	Required	Single	7
Day	Element	Required	Single	20
Component Due Date	Element	Optional	Single	
Date	Group	Required	Single	
Year	Element	Required	Single	2002
Month	Element	Required	Single	7
Day	Element	Required	Single	23
PriceDetails	Element	Optional	Multiple	
Price Quantity Basis	Element	Optional	Single	"Count"
Price Tax Basis	Element	Optional	Single	No
CurrencyValue	Element	Optional	Single	5550
CurrencyType	Element	Optional	Single	"USD"
Price per Unit	Element	Optional	Single	0.37
Unit of Measure	Element	Optional	Single	"Unit"
GeneralLedgerAccount	Element	Optional	Single	40322
Agency	Attribute	Required	Single	BISAC
Quantity	Element	Required	Single	15000
Quantity Type	Element	Required	Single	"Count"
QuantityTypeContext	Element	Required	Single	"On Order"
Value	Element	Required	Single	15000
UOM	Element	Required	Single	"Unit"

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OrderConfirmation Sample

	Type	Required	Occurrence	Value
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.
OrderConfirmationSummary	Element	Required	Single	
TotalNumberOfLineItems	Element	Required	Single	2
TotalQuantity	Element	Required	Multiple	
Quantity Type	Element	Required	Single	"Count"
QuantityTypeContext	Element	Required	Single	"On Order"
Value	Element	Required	Single	30000
UOM	Element	Required	Single	"Unit"
TotalAmount	Element	Required	Single	
CurrencyValue	Element	Required	Single	13800
CurrencyType	Element	Required	Single	"USD"

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Appendix C – Order Confirmation Template

PO Order Confirmation Template

	Type	Required	Occurrence	Status
OrderConfirmation	Root			
OrderConfirmationStatusType	Attribute	Required	Single	"Accepted", "Amended", "Cancelled", "Rejected"
Reissued	Attribute	Optional	Single	
Language	Attribute	Optional	Single	
OrderConfirmationHeader	Group	Required	Single	
OrderConfirmationHeaderStatusType	Attribute	Required	Single	"Accepted", "Amended", "Rejected", "Pending", or "NoAction"
OrderConfirmationHeaderStatusTypeText	Element	Optional	Single	
Order Confirmation Issued Date	Group	Required	Single	
Date	Group	Required	Single	
Year	Element	Required	Single	
Month	Element	Required	Single	
Day	Element	Required	Single	
TransactionHistoryNumber	Element	Optional	Single	
TransactionHistoryConfirmationNumber	Element	Optional	Single	

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PO Order Confirmation Template

	Type	Required	Occurrence	Status
PurchaseOrderInformation	Group	Required	Single	
Purchase Order Number	Element	Required	Single	
Purchase Order Release Number	Element	Optional	Single	
Purchase Order Issued Date	Element	Optional	Single	
Date	Group	Required	Single	
Year	Element	Required	Single	
Month	Element	Required	Single	
Day	Element	Required	Single	
Purchase Order Reference	Element	Optional	Multiple	
Purchase Order Reference Type	Attribute	Optional	Single	
Order Confirmation Reference	Element	Optional	Multiple	Use to return Vendor Job ID
Order Confirmation Reference Type	Attribute	Optional	Multiple	
BuyerParty	Group	Required	Single	
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	

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PO Order Confirmation Template

	Type	Required	Occurrence	Status
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	
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	

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PO Order Confirmation Template

	Type	Required	Occurrence	Status
SupplierParty	Group	Required	Single	
OtherParty	Group	Optional	Multiple	
SenderParty	Group	Optional	Single	
ReceiverParty	Group	Optional	Multiple	
ShipToCharacteristics	Group	Required	Single	
ShiptoParty	Group	Required	Single	
TermsofDelivery	Group	Optional	Single	
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	

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PO Order Confirmation Template

	Type	Required	Occurrence	Status
Day	Element	Required	Single	
TransportModeCharacteristics	Group	Optional	Single	
TransportVehicleCharacteristics	Group	Optional	Single	
TransportUnitCharacteristics	Group	Optional	Single	
TransportLoadingCharacteristics	Group	Optional	Single	
TransportOtherInstructions	Group	Optional	Multiple	
AdditionalText	Element	Optional	Multiple	
OrderConfirmationLineItem	Group	Required	Multiple	
OrderConfirmationLineItemStatusType	Attribute	Required	Single	"New", "Amended", Cancelled", "NoAction"
OrderConfirmationLineItemStatusTypeText	Element	Required	Single	
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

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PO Order Confirmation Template

	Type	Required	Occurrence	Status
Agency	Attribute	Optional	Single	"XBITS"
Classification Description	Element	Optional	Multiple	
Book Manufacturing	Group	Optional	Single	
Proof Informational Quantity	Group	Optional	Multiple	From BookManufacturing within Product
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	

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PO Order Confirmation Template

	Type	Required	Occurrence	Status
Other Party	Group	Optional	Single	
ProofApprovalDate	Group	Optional	Single	
ProofDueDate	Group	Optional	Single	
Additional Text	Element	Optional	Multiple	
Supplied Component Info	Group	Optional	Multiple	From BookManufacturing within Product
SuppliedComponentType	Attribute	Optional	Single	"Component" or "Raw Material"
Supplier Party	Element	Required	Single	
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	
ComponentShipDate	Group	Optional	Single	

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PO Order Confirmation Template

	Type	Required	Occurrence	Status
ComponentDueDate	Group	Optional	Single	
ComponentNeededDate	Group	Optional	Single	
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 BookManufacturing within Product
CartonCharacteristics-Book	Group	Required	Single	
CartonType	Attribute	Optional	Single	
Height	Group	Optional	Single	
Length	Group	Optional	Single	
Width	Group	Optional	Single	
Weight	Group	Optional	Single	
UnitsPerCarton	Group	Optional	Single	
LabelCharacteristics	Group	Optional	Multiple	
StencilCharacteristics-Book	Group	Optional	Multiple	
WrapCharacteristics	Group	Optional	Single	
BandCharacteristics-Book	Group	Optional	Single	

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PO Order Confirmation Template

	Type	Required	Occurrence	Status
PalletPackagingCharacteristics-Book	Group	Required	Single	
PackagingCode	Group	Optional	Single	
PackagingDescription	Group	Optional	Single	
WrapCharacteristics	Group	Optional	Single	
PalletCharactetristics	Group	Optional	Single	
BandChacteristics-Book	Group	Optional	Single	
LabelCharactetristics	Group	Optional	Multiple	
StencilCharacteristics-Book	Group	Optional	Multiple	
MaximumHeight	Group	Optional	Single	
MaximumGrossWeight	Group	Optional	Single	
AdditionalText	Group	Optional	Multiple	
OrderConfirmationReference	Group	Optional	Multiple	
1 PriceDetails	Group	Required	Multiple	Either PriceDetails or MonetaryAdjustment is optional.
Price Quantity Basis	Attribute	Optional	Single	"Count"
Price Tax Basis	Element	Optional	Single	NA
CurrencyValue	Element	Optional	Single	

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PO Order Confirmation Template

	Type	Required	Occurrence	Status
CurrencyType	Attribute	Optional	Single	"USD"
Price per Unit	Element	Optional	Single	
Unit of Measure	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	Required	Single	
1 Monetary Adjustment	Group	Required	Multiple	Either PriceDetails or MonetaryAdjustment is optional.
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	

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PO Order Confirmation Template

	Type	Required	Occurrence	Status
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	
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	
ShipToCharacteristics	Group	Optional	Single	
OtherParty	Group	Optional	Multiple	
TransportModeCharacteristics	Group	Optional	Single	
TransportVehicleCharacteristics	Group	Optional	Single	

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PO Order Confirmation 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	
OrderConfirmationSummary	Group	Required	Single	
TotalNumberOfLineItems	Element	Required	Single	
1 TotalQuantity	Group	Required	Single	
1 TotalInformationalQuantity	Group	Optional	Multiple	
LineItemSubTotal	Group	Optional	Single	
CurrencyValue	Element	Required	Single	
CurrencyType	Element	Required	Single	"USD"
TotalAdjustments	Group	Optional	Single	
CurrencyValue	Element	Required	Single	
CurrencyType	Element	Required	Single	"USD"
TotalTaxAmount	Group	Optional	Single	
CurrencyValue	Element	Required	Single	
CurrencyType	Element	Required	Single	"USD"
TotalNetAmount	Group	Optional	Single	

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PO Order Confirmation Template

	Type	Required	Occurrence	Status
CurrencyValue	Element	Required	Single	
CurrencyType	Element	Required	Single	"USD"
TotalAmount	Group	Optional	Single	
CurrencyValue	Element	Required	Single	
CurrencyType	Element	Required	Single	"USD"
InformationalAmount	Group	Optional	Multiple	
CurrencyValue	Element	Required	Single	
CurrencyType	Element	Required	Single	"USD"
AdditionalText	Element	Optional	Multiple	
1 TermsofPayament	Element	Optional	Multiple	
1 TotalNetOfTermsDiscount	Element	Optional	Multiple	
AdditionalText	Element	Optional	Multiple	
TermsAndDisclaimers	Element	Optional	Multiple	