



papiNet

Book Specificaation

papiNet Standard - Version 2.31

Documentation

**Global Standard for the Paper and Forest
Products Supply Chain**

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papiNet Standard

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BookSpecification Documentation

An Overview of the BookSpecification Message

The BookSpecification message is designed for use within the Book Industry, consisting of publishers, printers, and component suppliers. The Specification Message was developed to capture product specifications exclusive to book manufacturing industry products, most commonly, single book products, however the Specification Message is comprehensive in scope and can be utilized to define book set products, packages and media. The BookSpecification message is NOT designed to contain any product content.

The structure of the message utilizes existing papiNet constructs where ever possible, and in addition, contains the unique Book Industry specific data elements. The message has also been designed to capture detailed product specifications as optional elements. It will be useful to become acquainted with certain papiNet documents such as the Data Dictionary Part A Elements and Part B Attributes. These can be found at the papiNet site, www.papinet.org.

The buyer establishes product specifications and captures the data in a Specification Message that is sent to the supplier. The buyer references the Specification Message identifier in order to provide the additional required information needed by the supplier to process specific transactions such as:

- Request for quote (RFQ)
- Purchase Order (PO)

The Scope of the BookSpecification Message

The BookSpecification Message represents established product specifications that can be referenced by multiple transactions in the manufacturing life cycle of a product from RFQ through invoice and subsequent reprints and/or reorders. It captures unique book manufacturing industry data elements as established by the buyer that are needed by the supplier for manufacturing.

The recommended usage is creation and initiation of the BookSpecification message by the buyer, sent in conjunction with and referenced by a transaction that requires response such as the RFQ or PO.

The Specification Message may accompany either the RFQ or PO Transaction and differs from other Book Industry Transactions. The message does not require a response from the supplier; however a business acknowledgement transaction may be used for this purpose if required by the trading partner.

Changes to the BookSpecification message by the buyer are made by

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issuance of a new specification message or issuing an amended BookSpecification message.

Business Rules for the BookSpecification Message

At the highest level, data elements that are required represent the minimal amount of data needed to process the corresponding RFQ or Purchase Order transaction. The following is a list of the highest level fields required for the BookSpecification message:

- SpecType (attribute)
- SpecStatusType (attribute)
- Spec General (group element): Within the Spec General the following fields are required:
 - Spec Information (group element)
 - Sender Party (group element)
 - Receiver Party (group element)
 - SpecificationNumber (element)
 - Spec Version (element)
 - Spec Issue Date (group element)

At a minimum, one (or more) of the following line items of the transaction must be completed at the highest level and are repeatable as necessary.

- SpecBinding
- SpecPackaging
- SpecAssembly
- SpecComponent (Press and/or non-press group)

Following are the business rules that apply to the specification message:

General Business Rules

| Identifier | Business Rule |
|-------------------|---|
| Spec_001 | The BookSpecification message's SpecificationNumber is always to be referenced in the corresponding PurchaseOrder or RFQ message's PurchaseOrderReference element. This ensures the linkage between the PO / RFQ and its corresponding BookSpecification. |
| Spec_002 | Purchase order instructions may vary from the BookSpecification message and will be treated as an override associated solely with that PO. |
| Spec_003 | [obsolete] |
| Spec_004 | ProductIdentifier, Agency, and ProductIdentifierType field values are the same field |

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| | |
|-----------------|---|
| | values populated in the associated message types (PO, RFQ) and are used for linking the two messages. |
| Spec_005 | Agency for the book specification message is XBITS. |
| Spec_006 | Changes to the spec can be initiated only by the buyer. |
| Spec_007 | At a minimum, one (or more) of the following line items of the transaction must be completed at the highest level and are repeatable as necessary. <ul style="list-style-type: none">• SpecBinding• SpecPackaging• SpecAssembly |

Processing the BookSpecification Message

A buyer sends a BookSpecification message in conjunction with an RFQ or PO, referencing the specification message number/version. The supplier will then initiate a response to the accompanying RFQ or PO including the reference to the specification message number/version by the initiation of the Quote (from RFQ) or PO Confirmation (from PO).

- Acceptance

Acceptance of the BookSpecification message is handled by the acceptance of the associated PO or RFQ and implies acceptance of the linked BookSpecification message.

- Rejection

Rejection of the BookSpecification message is handled by rejection of the PO or RFQ indicating the reason for rejection.

- Confirmation

Confirmation of the BookSpecification message is not required; however a business acknowledgement transaction could be utilized if the BookSpecification message was sent to the supplier without an associated RFQ or PO.

Status Values Used When Processing the BookSpecification Message

The SpecStatusType attribute communicates the status of the BookSpecification message using the following choices:

- Original

Indicates the original issue of the BookSpecification message by the buyer

- Replacement

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Indicates that the buyer has made changes to a field or fields within the BookSpecification message

- Amended

Indicates only change fields have been sent.

- Cancel

Indicates the BookSpecification message has been cancelled.

Buyer sends a BookSpecification message and a PO to the supplier with the BookSpecification message StatusType of "Original". The supplier processes the message data internally and then sends a PO Confirmation message in reply to the buyer.

Buyer sends a BookSpecification message to the supplier with the StatusType "Replacement". The supplier replaces all data of the "Original" BookSpecification message with all data contained in the "Replacement" BookSpecification message. (Precondition: the supplier has previously received an "Original" BookSpecification message).

Rejection of a BookSpecification message by the supplier is accomplished by rejection of the corresponding PO or RFQ. The BusinessAcknowledgement may also be used to reject/accept the BookSpecification message.

Buyer may elect to issue the complete or applicable partial BookSpecification message to all supplier parties along with the appropriate PO or RFQ message.

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Understanding the Diagrams and Content

This section provides an explanation of the graphical view and descriptive content associated with the schema structures.

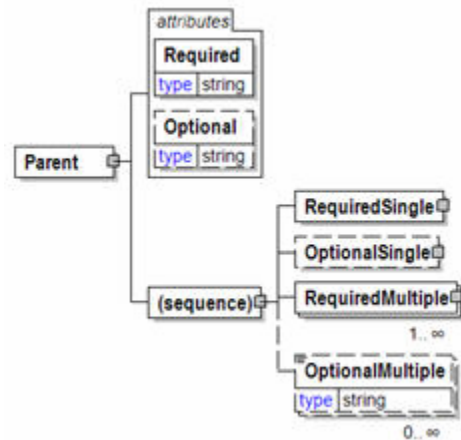
- The graphics contain elements, attributes, content model indicators, cardinality indicators, and data type information.
- Associated with each graphic are the definitions for the parent item and any associated child items. All attributes are listed first, followed by the elements.
- Children are grouped together using, what is termed, a content model.
- Cardinality is communicated for each item.

Let's use the following sample graphic as an explanatory vehicle. This graphic displays a parent element that has four elements and two attributes.

Elements:

Elements are displayed using a simple rectangle.

- A required element has a solid outline.
- An optional element has a dashed outline.
- Repeatability is shown via a multipage outline along with an indication of the repeatability in the bottom right-hand side of the element.
- If the element permits the entry of textual content three horizontal lines appear in the upper left-hand corner (See, "OptionalMultiple").
- The element's data-type is displayed below the element name. (In addition a default value, if it exists, can be shown.)
- If the element contains further element or attribute content a gray box appears at the right-hand middle portion of the outline (See, "RequiredSingle", "OptionalSingle", "RequiredMultiple").



Attributes:

Attributes are contained within a tabbed container that is labelled "attributes".

- A required attribute has a solid outline.
- An optional attribute has a dashed outline.

Content model indicators:

There are three possible types of content: "sequence", "choice", and "all". The sample above shows "sequence".

- (sequence)

The sequence of the items to the right of the graphic (or below the text) are grouped together.

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- (choice)

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

- (all)

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

Content models can also display cardinality aspects (single, multiple, optional, required), these are shown in a way similar to elements.

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papiNet Standard Root Element

BookSpecification

The BookSpecification message represents established product specifications that can be referenced by multiple transactions in the manufacturing life cycle of a product from RFQ through invoice and subsequent reprints and/or reorders. It captures unique book manufacturing industry data elements as established by the buyer that are needed by the supplier for manufacturing.

SpecType [attribute]

SpecType is optional. A single instance might exist.

Used to identify what type of BookSpecification message this transaction is.

This item is restricted to the following list.

SpecOrder

Used when the BookSpecification message is intended for use with the Purchase Order transaction.

SpecRFQ

Used when the BookSpecification message is intended for use with the Request for Quote (Estimate) transaction.

SupplierSpec

Used when the BookSpecification message is intended for use by the Supplier only and is not generated by, or transmitted to the Buyer.

SpecStatusType [attribute]

SpecStatusType is optional. A single instance might exist.

Identifies the status of the entire BookSpecification message (in other words, at the root level).

This item is restricted to the following list.

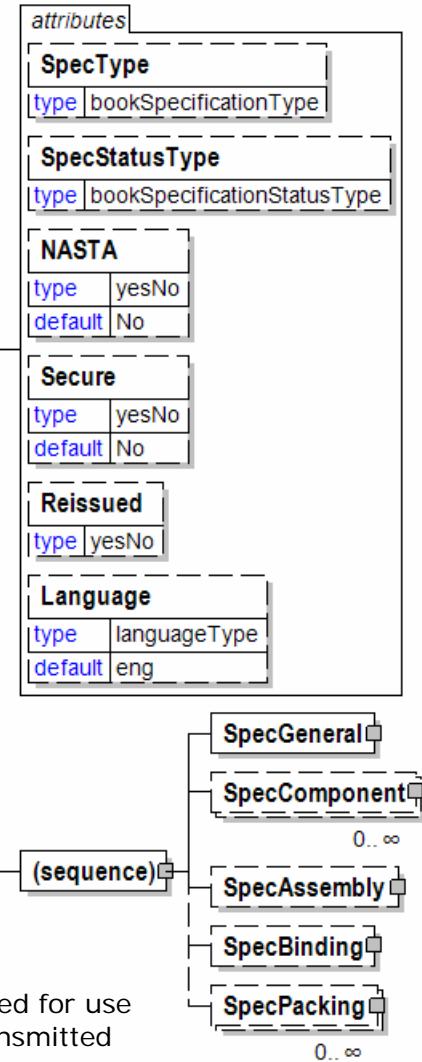
Amended

The supplied information is changed

Cancelled

The supplied information is cancelled. Items that have been cancelled are not included in totals on the summary levels of the message.

BookSpecification



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Original

The message information is the first version of that information.

Replaced

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

NASTA [attribute]

NASTA is optional. A single instance might exist.

Used to indicate the specification must conform to the NASTA requirements.

This item is restricted to the following list.

Yes

No

Secure [attribute]

Secure is optional. A single instance might exist.

This attribute indicates that the product requires a secure manufacturing plant. For example when manufacturing ACT booklets and other testing products.

This item is restricted to the following list.

Yes

No

Reissued [attribute]

Reissued is optional. A single instance might exist.

Either "Yes" or "No".

This item is restricted to the following list.

Yes

No

Language [attribute]

Language is optional. A single instance might exist.

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

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

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

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referenced in the above errata.

(sequence)

The sequence of items below is mandatory. A single instance is required.

SpecGeneral

SpecGeneral is mandatory. A single instance is required.

Spec General

SpecComponent

SpecComponent is optional. Multiple instances might exist.

Group element used to identify all the necessary component information for this book specification.

- Each occurrence of this construct identifies a single component.

SpecAssembly

SpecAssembly is optional. A single instance might exist.

SpecAssembly contains assemblies that are used in the manufacturing of books.

SpecBinding

SpecBinding is optional. A single instance might exist.

SpecBinding describes the binding process.

SpecPacking

SpecPacking is optional. Multiple instances might exist.

SpecPacking defines the book packaging parameters.

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Primary Elements

SpecGeneral

Spec General

(sequence)

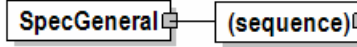
The sequence of items below is mandatory. A single instance is required.

SpecInformation

SpecInformation is mandatory. A single instance is required.

Construct is used to uniquely identify this book specification.

- Note:
ProductIdentifier,
ProductDescription,
and Classification removed in Version V2R30
and replaced with SpecificationNumber to more
accurately reflect the business process.



TransactionHistoryNumber

TransactionHistoryNumber is optional. A single instance might exist.

A sequential number that keeps track of the version of a document being sent by the document originator except in the case where

TransactionHistoryConfirmation is used, in which case the TransactionHistoryNumber refers to the trigger transaction for which the confirmation is being sent.

SenderParty

SenderParty is mandatory. A single instance is required.

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

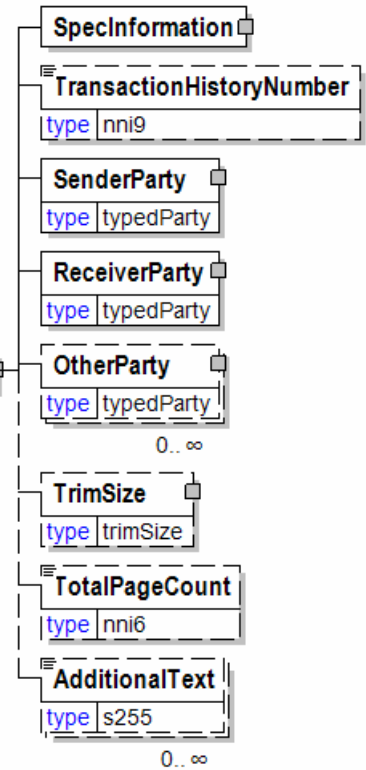
- The entity responsible for the content. If the sender party has out sourced the message service to a third party the SenderParty is the issuer of the e-document and not the party performing the transmission service of the electronic message.

ReceiverParty

ReceiverParty is mandatory. A single instance is required.

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

- The entity interested in the content. If the receiver party has outsourced the message service to a third party the ReceiverParty is the intended party for the e-document and not the party performing the receiving service of the electronic message.



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OtherParty

OtherParty is optional. Multiple instances might exist.

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

TrimSize

TrimSize is optional. A single instance might exist.

Trim size.

TotalPageCount

TotalPageCount is optional. A single instance might exist.

Element used to communicate the book's approximate total number of pages within each unit of the book. Total page count is more or less a reference to the "size" of the book that the customer designates. For instance, they will refer to a book as 800 pages when in fact it is 792 actual text pages with 8 pages of various inserts. This value should not be used to drive any of the other values for the component parts, but may in fact be exactly equal to the number of pages in one of the components designated as "Text".

AdditionalText

AdditionalText is optional. Multiple instances might exist.

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

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SpecComponent

Group element used to identify all the necessary component information for this book specification.

- Each occurrence of this construct identifies a single component.

(sequence)

The sequence of items below is mandatory. A single instance is required.

ProductIdentifier

ProductIdentifier is mandatory. A single instance is required.

Used to communicate the code of the article, in a variety of formats designated by the type.



ProductDescription

ProductDescription is optional. Multiple instances might exist.

An element used to communicate a human readable description of the product in the language specified by the Language attribute.

(sequence)

The sequence of items below is mandatory. One instance is required, multiple instances might exist.

Classification

Classification is mandatory. A single instance is required.

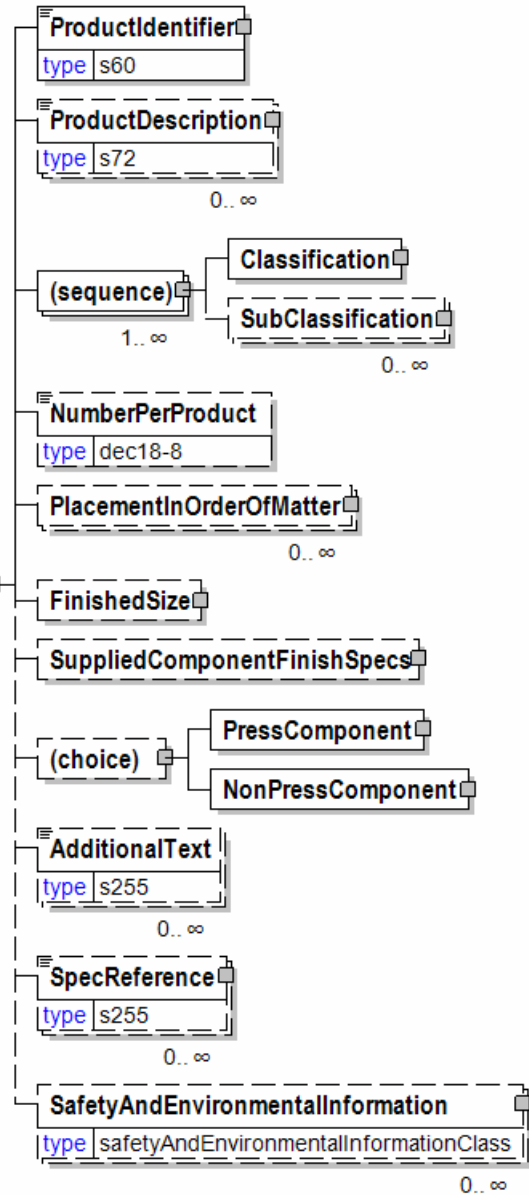
A group item that details the product classification according to a particular organization's scheme. An item across multiple classifications would still be recognized as the same item. Examples of some product classifications are: Containerboard, Pulp-Dissolving, or Newsprint.

SubClassification

SubClassification is optional. Multiple instances might exist.

SubClassification provides additional classification information.

NumberPerProduct



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NumberPerProduct is optional. A single instance might exist.

The number of components or items per assembly or constructed product

PlacementInOrderOfMatter

PlacementInOrderOfMatter is optional. Multiple instances might exist.

Element used to identify where the component is to be placed amongst other components when assembling a book.

FinishedSize

FinishedSize is optional. A single instance might exist.

Finished size

SuppliedComponentFinishSpecs

SuppliedComponentFinishSpecs is optional. A single instance might exist.

Supplied Component Finish Specs

(choice)

[choice] is optional because of choice construct.

PressComponent

PressComponent is optional because of choice construct.

Press Component.

NonPressComponent

NonPressComponent is optional because of choice construct.

Non-press component.

AdditionalText

AdditionalText is optional. Multiple instances might exist.

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

SpecReference

SpecReference is optional. Multiple instances might exist.

Used to identify any external or associated documents, identifiers, etc.

SafetyAndEnvironmentalInformation

SafetyAndEnvironmentalInformation is optional. Multiple instances might exist.

Name of certification type, if any, on the goods (For example, FSC, PEFC). SafetyAndEnvironmental needs a value or measurement to communicate the percentage of the product is certified (for example, 75% is certified by the indicated agency).

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SpecAssembly

SpecAssembly contains assemblies that are used in the manufacturing of books.

(sequence)

The sequence of items below is mandatory. A single instance is required.

ProductIdentifier

ProductIdentifier is mandatory. A single instance is required.

Used to communicate the code of the article, in a variety of formats designated by the type.

ProductDescription

ProductDescription is optional. Multiple instances might exist.

An element used to communicate a human readable description of the product in the language specified by the Language attribute.

BillOfMaterials

BillOfMaterials is optional. A single instance might exist.

A specification of the components and other items that are used to produced the item in question.

Height

Height is optional. A single instance might exist.

The height of the object.

Length

Length is optional. A single instance might exist.

The following approach is used in the timber/lumber related constructs.

Width

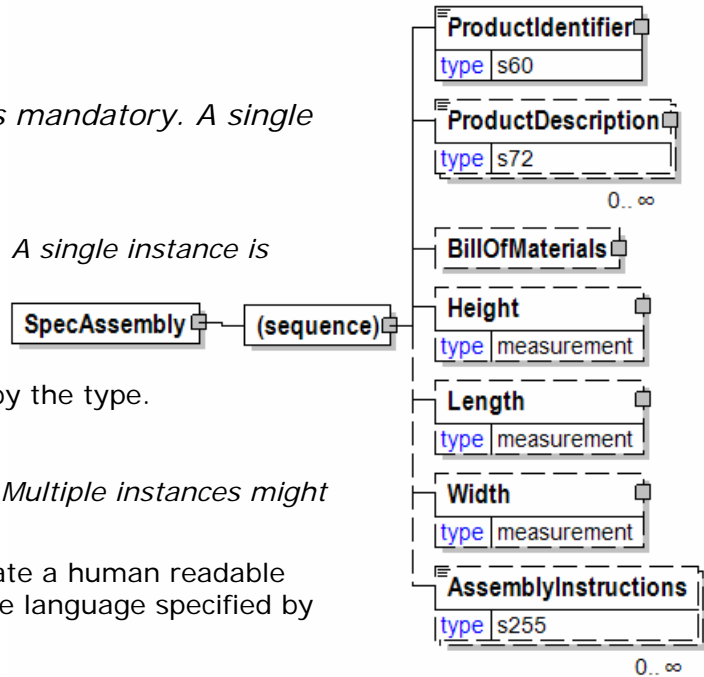
Width is optional. A single instance might exist.

The following approach is used in the timber/lumber related constructs.

AssemblyInstructions

AssemblyInstructions is optional. Multiple instances might exist.

Instructions for assembly.



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SpecBinding

SpecBinding describes the binding process.

BindingType [attribute]

BindingType is optional. A single value is required.

Binding type

This item is restricted to the following values:

Hardcover

Softcover

Layflat

Mechanical

Self

BindingStyleType [attribute]

BindingStyleType is optional. A single value is required.

Indicates the style of binding used

This item is restricted to the following values:

Accordion

Adhesive

AdhesiveBurst

AdhesiveSewn

BoardBook

BookLock

Burst

CombinationBinding

Custom

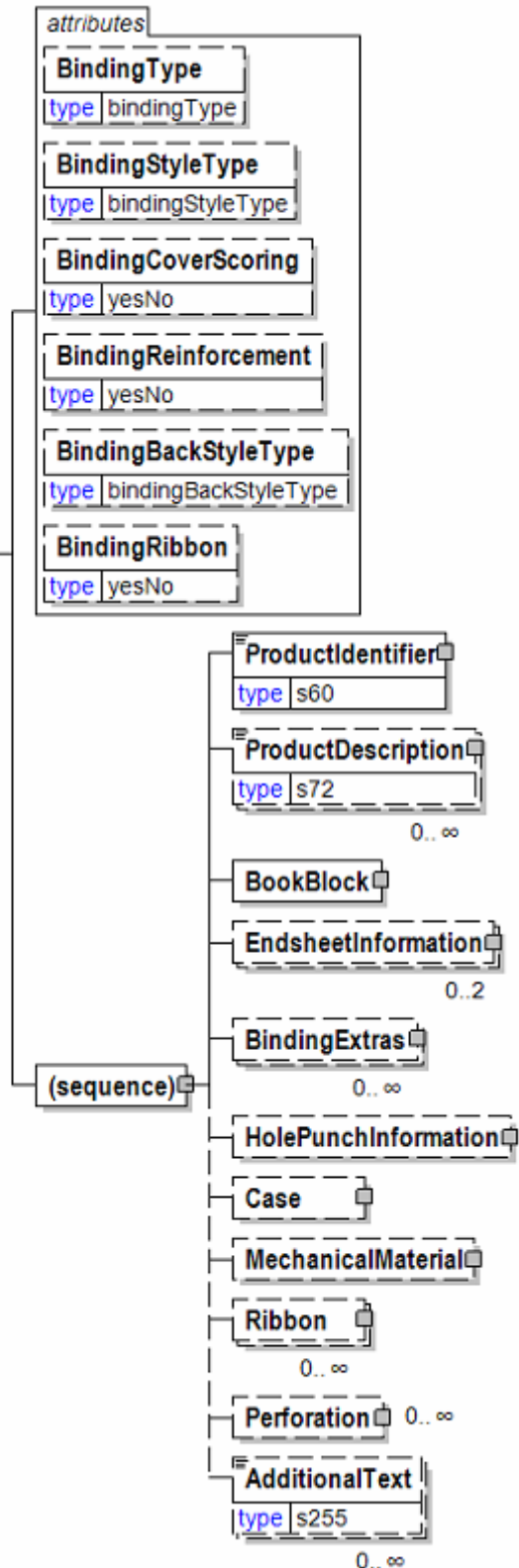
Durasew

FlexiBind

IMS

LayFlatSoft

SpecBinding



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LayflatBind
LooseLeaf
McCainSideSewn
Notch
Pad
Patent
PerfectAdhesive
PerfectBound
PlasticComb
Repcover
Ring
RoundBound
SaddleStitch
SaddleWire
SelfCover
SemiConcealedWireO
SideSewn
Sidewire
SmythSewn
Spiral
SpiralHardFrontHardBack
SpiralSoftFrontHardBack
SpiralSoftFrontSoftBack
Threadseal
ThreadSewn
Trim4SideDrill
TrimFourSides
UltraFan
WireO
WireOConcealed

Wire binding where the wire is concealed in the spine of the book.

Other

BindingCoverScoring [attribute]

BindingCoverScoring is optional. A single instance might exist.

Binding cover scoring

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This item is restricted to the following list.

Yes

No

BindingReinforcement [attribute]

BindingReinforcement is optional. A single instance might exist.

Binding reinforcement

This item is restricted to the following list.

Yes

No

BindingBackStyleType [attribute]

BindingBackStyleType is optional. A single instance might exist.

Binding back style type

This item is restricted to the following list.

Tight

Loose

BindingRibbon [attribute]

BindingRibbon is optional. A single instance might exist.

Binding ribbon

This item is restricted to the following list.

Yes

No

(sequence)

The sequence of items below is mandatory. A single instance is required.

ProductIdentifier

ProductIdentifier is mandatory. A single instance is required.

Used to communicate the code of the article, in a variety of formats designated by the type.

ProductDescription

ProductDescription is optional. Multiple instances might exist.

An element used to communicate a human readable description of the product in the language specified by the Language attribute.

BookBlock

BookBlock is mandatory. A single instance is required.

Book block information

EndsheetInformation

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EndsheetInformation is optional.

End sheet information.

BindingExtras

BindingExtras is optional. Multiple instances might exist.

Binding extras

HolePunchInformation

HolePunchInformation is optional. A single instance might exist.

Hole Punch Information.

Case

Case is optional. A single instance might exist.

Case information

MechanicalMaterial

MechanicalMaterial is optional. A single instance might exist.

Mechanical material information

Ribbon

Ribbon is optional. Multiple instances might exist.

Ribbon information.

Perforation

Perforation is optional. Multiple instances might exist.

Perforation information

AdditionalText

AdditionalText is optional. Multiple instances might exist.

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

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SpecPacking

SpecPacking defines the book packaging parameters.

(sequence)

The sequence of items below is mandatory. A single instance is required.

ProductIdentifier

ProductIdentifier is mandatory. A single instance is required.

Used to communicate the code of the article, in a variety of formats designated by the type.

ProductDescription

ProductDescription is optional. Multiple instances might exist.

An element used to communicate a human readable description of the product in the language specified by the Language attribute.

BookUnitPacking

BookUnitPacking is optional. Multiple instances might exist.

Book unit packing information

BoxCharacteristics

BoxCharacteristics is optional. A single instance might exist.

BoxCharacteristics is a group element that contains information about the box (or carton)

PalletPackagingCharacteristics

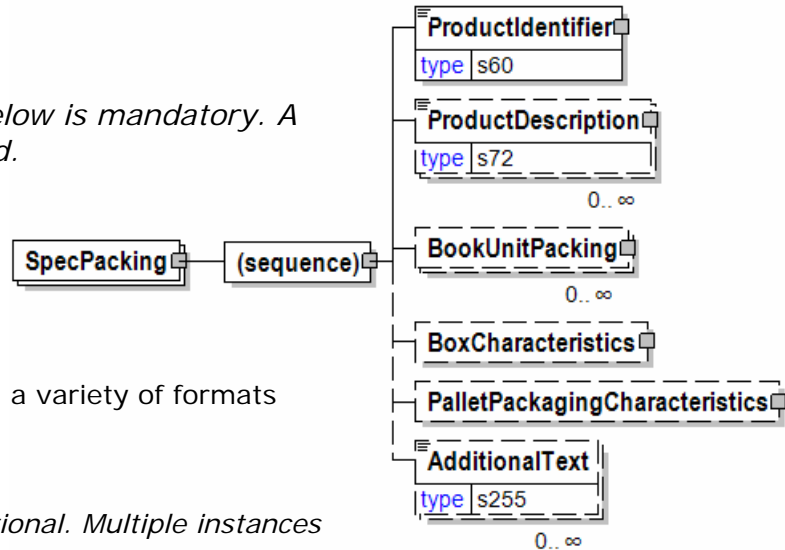
PalletPackagingCharacteristics is optional. A single instance might exist.

PalletPackagingCharacteristics details the characteristics of the packaging for a pallet.

AdditionalText

AdditionalText is optional. Multiple instances might exist.

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



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Business Scenarios

Scenario A

| | |
|--------------------|--|
| Scenario | <p>Example of an educational text book with:</p> <ul style="list-style-type: none"> • spiral coated-wire binding • 10 7/8 x 12 1/16 inch trim size • 720 pages <ul style="list-style-type: none"> • the first 2 signatures print on 60 LB paper • the remaining on 45 pound <ul style="list-style-type: none"> • contains 3 printed tab-dividers <p>The front cover is paper and the back cover is hard with a white end sheets and oversized (11 1/2 inch width) to protect the tab-dividers.</p> |
| Spreadsheet | BookSpecification_ScenarioA.xls |
| XML File | None |

Scenario B

| | |
|--------------------|--|
| Scenario | <p>Example of an educational text book with:</p> <ul style="list-style-type: none"> • plastic-spiral binding • 10 x 12 inch trim size • 480 pages and a set of 6 tab-dividers. <p>The front and back covers are hard with white end sheets and oversized (10 5/8 inch width) to protect the tab dividers.</p> |
| Spreadsheet | BookSpecification_ScenarioB.xls |
| XML File | BookSpecification_ScenarioB.xml |

Scenario C

| | |
|--------------------|--|
| Scenario | <p>Example of the Jacket specification for a hardcover book:</p> <ul style="list-style-type: none"> • 5 1/2 x 8 1/4 inch trim size • 30` 4 pages |
| Spreadsheet | BookSpecification_ScenarioC.xls |

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| | |
|-----------------|------|
| XML File | None |
|-----------------|------|

Scenario D

| | |
|--------------------|---|
| Scenario | <p>Example of an educational Hardcover text book:</p> <ul style="list-style-type: none"> • 7 x 9 inch trim size • 768 pages • the first signature is 2/Color • the remaining signatures are 4/Color printing on 45 LB paper <ul style="list-style-type: none"> • contains 3 furnished inserts and a dust jacket |
| Spreadsheet | BookSpecification_ScenarioD.xls |
| XML File | None |

Scenario E

| | |
|--------------------|---|
| Scenario | <p>Example of the Assembly of the Notch Text book with:</p> <ul style="list-style-type: none"> • a CD • Pass code card • and label |
| Spreadsheet | BookSpecification_ScenarioE.xls |
| XML File | None |

Scenario F

| | |
|--------------------|--|
| Scenario | <p>Example of a hardcover book:</p> <ul style="list-style-type: none"> • 5 1/2 x 8 1/4 inch trim size • 304 pages • 1/Color printing on 50 LB paper • a furnished dust jacket. |
| Spreadsheet | What is the result when this scenario is successfully completed. |
| XML File | Who starts the process? |

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Scenario G

| | |
|--------------------|---|
| Scenario | Example of a paper cover catalogue <ul style="list-style-type: none">• 8 3/8 x 10 7/8 inch trim size• 1280 pages• 1/Color, 5-hole drilled |
| Spreadsheet | BookSpecification_ScenarioG.xls |
| XML File | None |

Scenario H

| | |
|--------------------|---------------------------------|
| Scenario | Paperback book specification |
| Spreadsheet | None |
| XML File | BookSpecification_ScenarioH.xml |

Scenario I

| | |
|--------------------|-------------------------------------|
| Scenario | Hardcover book specification, trade |
| Spreadsheet | None |
| XML File | BookSpecification_ScenarioI.xml |

Scenario J

| | |
|--------------------|---------------------------------|
| Scenario | Jacket Specification |
| Spreadsheet | None |
| XML File | BookSpecification_ScenarioJ.xml |
