BookSpecificaation

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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Table of Contents

BookSpecification Documentation

BookSpecification e-Document Overview

The BookSpecification e-Document is designed for use within the Book Industry, consisting of publishers, printers, and component suppliers. The BookSpecification e-Document was developed to capture product specifications exclusive to book manufacturing industry products, most commonly, single book products, however the BookSpecification e-Document is comprehensive in scope and can be utilized to define book set products, packages and media.

The structure of the e-Document utilizes existing papiNet constructs where ever possible, and in addition, contains the unique Book Industry specific data elements. The e-Document has also been designed to capture detailed product specifications as optional elements. (For additional information, refer to the papiNet Data Dictionary which can be found at www.papinet.org.)

The buyer establishes product specifications and captures the data in a BookSpecification e-Document that is sent to the supplier. The buyer references the BookSpecification e-Document 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 e-Document

The BookSpecification e-Document 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 e-Document by the buyer, sent in conjunction with and referenced by a transaction that requires response such as the RFQ or PO.

The Specification E-Document may accompany either the RFQ or PO Transaction and differs from other Book Industry Transactions. The e-Document 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 e-Document by the buyer are made by issuance of a new specification e-Document or issuing an amended BookSpecification e-Document.

Business Rules for the BookSpecification e-Document

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 e-Document:

- 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 e-Document:

General Business Rules

Identifier	Business Rule
Spec_001	The BookSpecification e-Document's SpecificationNumber is always to be referenced in the corresponding PurchaseOrder or RFQ e-Document'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 e-Document 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 values populated in the associated e-Document types (PO, RFQ) and are used for linking the two e-Documents.
Spec_005	Agency for the book specification e-Document 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.
	• SpecBinding
	• SpecPackaging
	• SpecAssembly

Processing the BookSpecification e-Document

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

- Acceptance

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

- Rejection

  Rejection of the BookSpecification e-Document is handled by rejection of the PO or RFQ indicating the reason for rejection.

- Confirmation

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

Status Values Used When Processing the BookSpecification e-Document

The SpecStatusType attribute communicates the status of the BookSpecification e-Document using the following choices:

- Original

  Indicates the original issue of the BookSpecification e-Document by the buyer

- Replaced

  Indicates that the buyer has made changes to a field or fields within the BookSpecification e-Document

- Amended

  Indicates only change fields have been sent.

- Cancel

  Indicates the BookSpecification e-Document has been cancelled.

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

Buyer sends a BookSpecification e-Document to the supplier with the StatusType "Replaced". The supplier replaces all data of the "Original" BookSpecification e-

Document with all data contained in the "Replaced" BookSpecification e-Document. (Precondition: the supplier has previously received an "Original" BookSpecification e-Document).

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

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

Understanding the Diagrams and Content

This section provides an explantion 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 multip-page 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", OptonalSingle", RequiredMultiple").
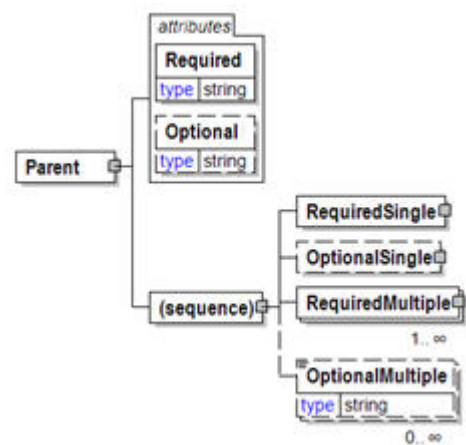
Attributes:
Attributes are contained within a tabbed container that is labelled "attributes".

- 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.

- (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.

papiNet Standard Root Element

BookSpecification

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

The BookSpecification e-Document 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 e-Document this transaction is.

This item is restricted to the following list.

SpecOrder

Used when the BookSpecification e-Document is intended for use with the Purchase Order transaction.

SpecRFQ

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

SupplierSpec

Will be removed in a future version. Recommended not to be used
(Old definition: Used when the BookSpecification e-Document is intended for use by the Supplier only and is not generated by, or transmitted to the Buyer).
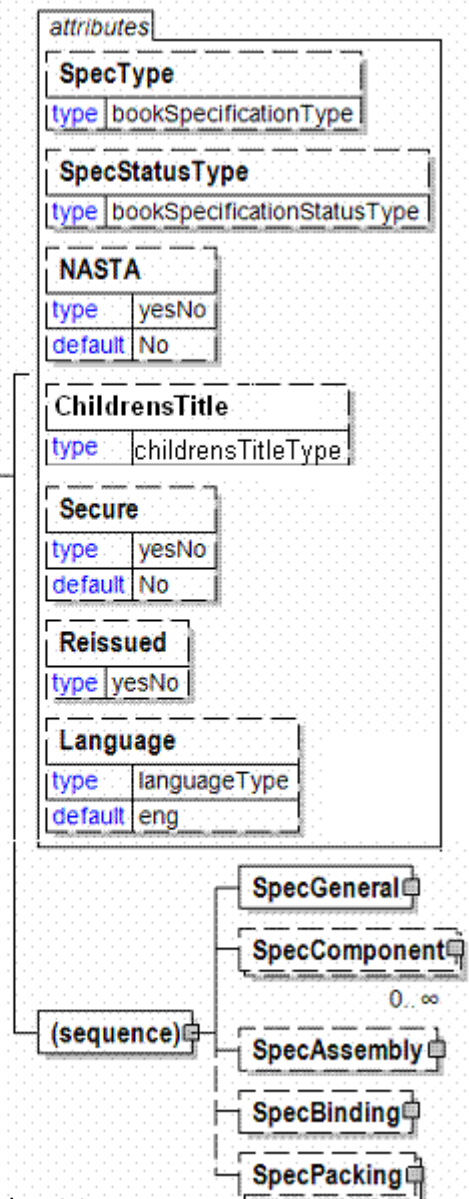
SpecStatusType [attribute]

SpecStatusType is optional. A single instance might exist.

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

This item is restricWted to the following list.

Amended

The supplied information is changed.

Cancelled

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

Original

The supplied information is the first version of that information.

Replaced

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

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

ChildrensTitle [attribute]

ChildrensTitle is optional. A single instance might exist.

Specifies if the book product is designated for use by children 12 and under or not.

This item is restricted to the following list.

NotChildrensTitle

Not a children's product; no testing required for lead or phthalates.

ChildrensWithPlayValue

Designated as a children's product and has "play value" outside of reading and writing; requires testing for lead and phthalates. (Examples of "play value" include paper doll books, sticker books, board books and bathtub books).

ChildrensWithoutPlayValue

Designated as a children's product but does not have any "play value" outside of reading and writing; requires testing for lead but not phthalates.

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 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.

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.
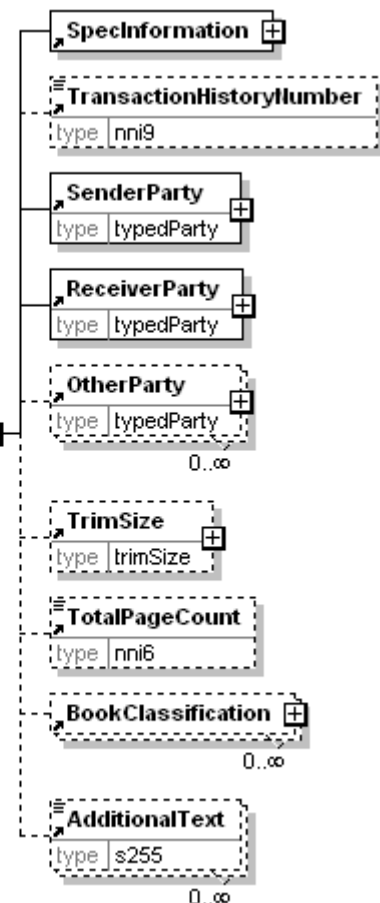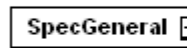
TransactionHistoryNumber

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 messsage 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 e-Document.

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 e-Document.

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".

BookClassification

BookClassification is optional. Multiple instances might exist.

Category under which the product or a component within the product is classified.

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.

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

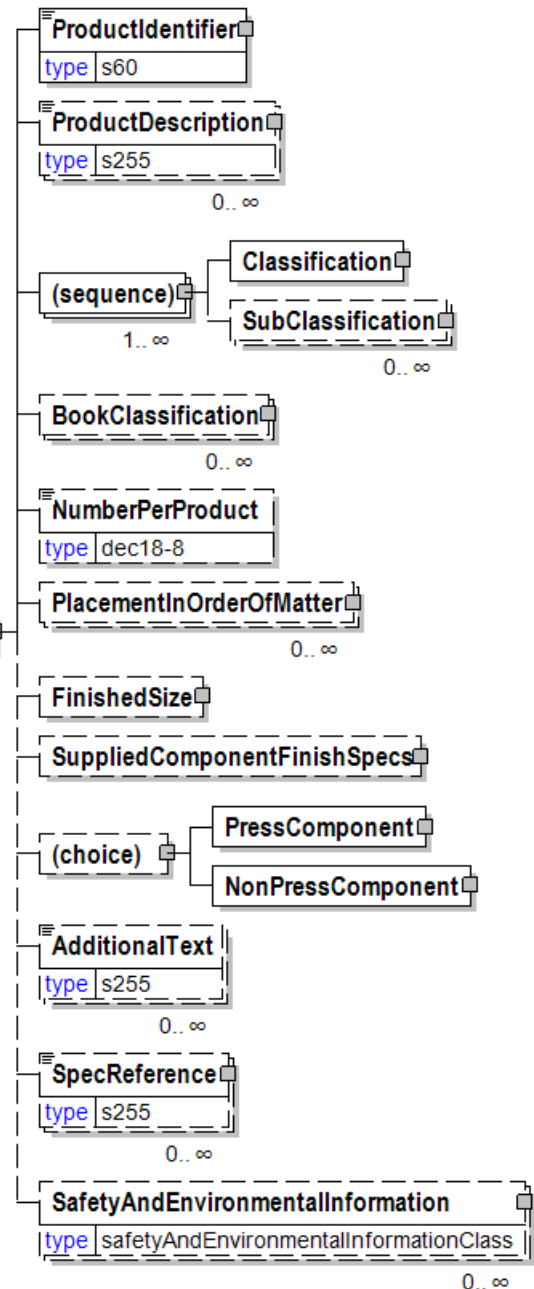*SubClassification is optional. Multiple instances might exist.*

SubClassification provides additional classification information.

BookClassification

BookClassification is optional. Multiple instances might exist.

Category under which the product or a component within the product is classified.

NumberPerProduct

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).

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.
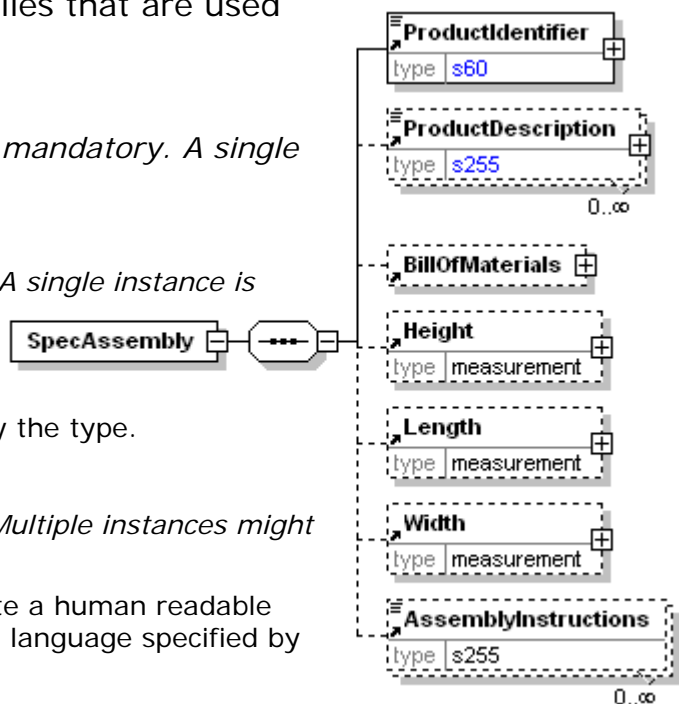
The length of the object.

Width

Width is optional. A single instance might exist.

The width of the object.

AssemblyInstructions

AssemblyInstructions is optional. Multiple instances might exist.

Instructions for assembly.

SpecBinding

SpecBinding describes the binding process.

BindingType [attribute]

BindingType is optional. A single instance might exist.

Binding type

This item is restricted to the following list.

Hardcover

Softcover

Layflat

Loose

Finished product consists of loose pages or signatures rather than bound; example is a packet of loose leaf pages that are drilled for insertion into a ring binder.

Mechanical

Self

BindingStyleType [attribute]

BindingStyleType is optional. A single instance might exist.

Indicates the style of binding used.

This item is restricted to the following list.

Accordion

Adhesive

AdhesiveBurst

AdhesiveSewn

BoardBook

BookLock

Burst

CombinationBinding

Custom

Durasew

FlexiBind

IMS

LayFlatSoft

LayflatBind

LooseLeaf

McCainSideSewn

Notch
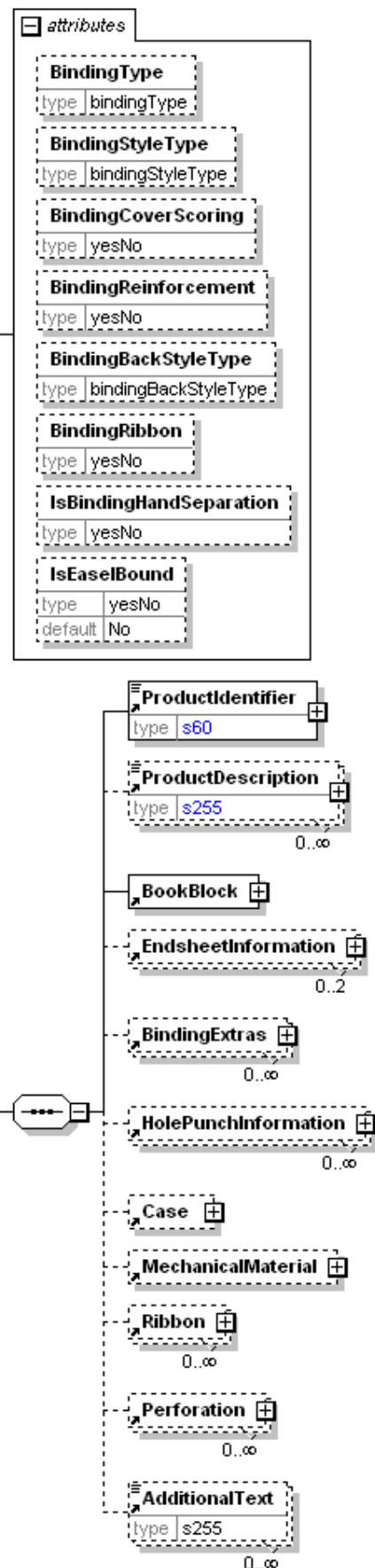
Pad

Patent

PerfectAdhesive

PerfectBound

PlasticComb

Repkover

Ring

RoundBound

SaddleStitch

SaddleWire

SelfCover

SemiConcealedWireO

SideSewn

Sidewire

SmythSewn

Spiral

SpiralHardFrontHardBack

SpiralSoftFrontHardBack

SpiralSoftFrontSoftBack

SquareBackSaddleWire

Saddlewire binding method where the spine is flattened rather than folded.

Thermal

Binding method that uses a one piece cover with glue down the spine to quickly and easily bind documents.

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

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**

IsBindingHandSeparation [attribute]

IsBindingHandSeparation is optional. A single instance might exist.

Indicates if there is hand separation required or not for books with odd page counts.

This item is restricted to the following list.

> **Yes**
>
> **No**

IsEaselBound [attribute]

IsEaselBound is optional. A single instance might exist.

Specifies if the binding is at the top of the pages or not rather than on the side which changes the pagination of the pages.

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

EndsheetInformation is optional.

End sheet information.

BindingExtras

BindingExtras is optional. Multiple instances might exist.

Binding extras

HolePunchInformation

HolePunchInformation is optional. Multiple instances 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.

SpecPacking

SpecPacking defines the book packaging parameters.

IsBoxed [attribute]

IsBoxed is optional. A single instance might exist.

This item is restricted to the following list.

Yes

Indicates that the operation should be performed and the specifications are included in the e-Document.

No

Indicates that the operation will not be performed.

StandardOperatingProcedure

Indicates the operation should be performed according to the Standard Operating Procedure manual provided by the customer that contains all procedures required for conducting business.

IsPalletized [attribute]

IsPalletized is optional. A single instance might exist.

The buyer's directions for how the item is to be palletized.

This item is restricted to the following list.

Yes

Indicates that the operation should be performed and the specifications are included in the e-Document.

No

Indicates that the operation will not be performed.

StandardOperatingProcedure

Indicates the operation should be performed according to the Standard Operating Procedure manual provided by the customer that contains all procedures required for conducting business.

(sequence)

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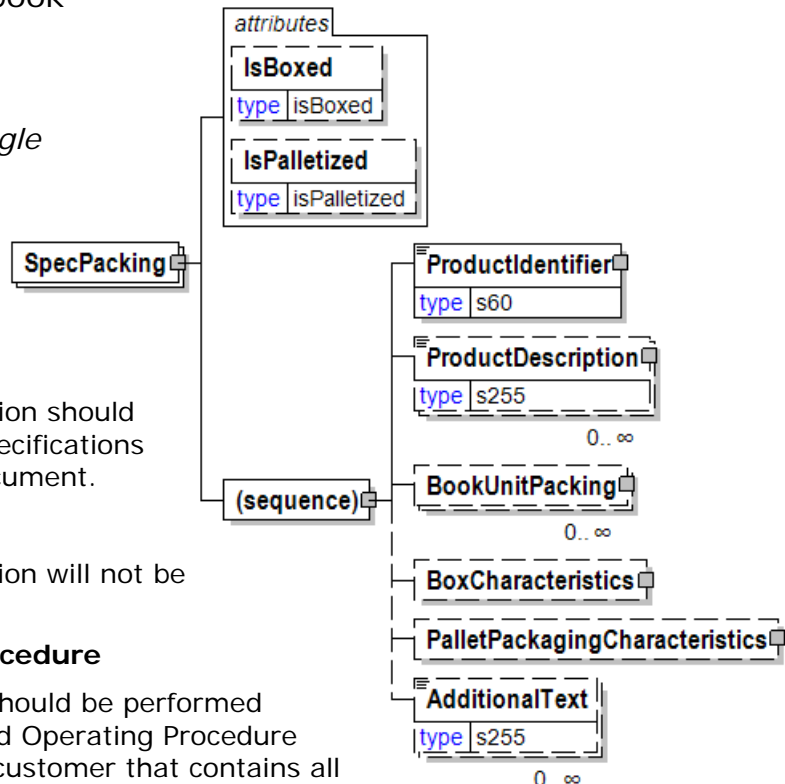
ProductIdentifier

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.

Business Scenarios

Scenario A

Scenario	Example of an educational text book with:
	• spiral coated-wire binding
	• 10 7/8 x 12 1/16 inch trim size
	• 720 pages
	• the first 2 signatures print on 60 LB paper
	• the remaining on 45 pound
	• contains 3 printed tab-dividers
	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.
Spreadsheet	BookSpecification_ScenarioA.xls
XML File	None

Scenario B

Scenario	Example of an educational text book with:
	• plastic-spiral binding
	• 10 x 12 inch trim size
	• 480 pages and a set of 6 tab-dividers.
	The front and back covers are hard with white end sheets and oversized (10 5/8 inch width) to protect the tab dividers.
Spreadsheet	BookSpecification_ScenarioB.xls
XML File	BookSpecification_ScenarioB.xml

Scenario C

Scenario	Example of the Jacket specification for a hardcover book:
	• 5 1/2 x 8 1/4 inch trim size
	• 30`4 pages
Spreadsheet	BookSpecification_ScenarioC.xls
XML File	None

Scenario D

Scenario	Example of an educational Hardcover text book:

	• 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
	    • contains 3 furnished inserts and a dust jacket

Spreadsheet	BookSpecification_ScenarioD.xls
XML File	None

Scenario E

Scenario	Example of the Assembly of the Notch Text book with: • a CD • Pass code card • and label
Spreadsheet	BookSpecification_ScenarioE.xls
XML File	None

Scenario F

Scenario	Example of a hardcover book: • 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?

Scenario G

Scenario	Example of a paper cover catalogue • 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