ContentOrderOfMatter

papiNet Standard - Version 2.31

Documentation

Global Standard for the Paper and Forest Products Supply Chain

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ContentOrderOfMatter Documentation

ContentOrderOfMatter e-Document Overview

The ContentOrderOfMatter e-Document accompanies the prep content files for the sole purpose of specifying the page sequencing in the book and the associated folio information.

The e-Document is designed to support both Compositor and Print supplier order-of-matter requirements where the e-Document that is sent to the Compositor may contain the data requirements for multiple PDF content files to be concatenated into a single PDF file that will be sent to the print supplier for processing. A new ContentOrderOfMatter e-Document containing the data requirements for the single PDF file is generated and sent to the print supplier.

Communication with the Compositor is usually just with the Buyer/Publisher but can be extended to the Print supplier depending on the trading partner relationships.

The Scope of the ContentOrderOfMatter

The ContentOrderOfMatter e-Document includes

- Root level ContentOrderOfMatter StatusType attribute with possible values of Original, Replaced and Cancelled.

- ContentOrderOfMatterHeader section
  - A specific DocumentNumber, DocumentVersionNumber and DocumentIssueDate that are used for tracking releases of the specification.
  - SenderParty, ReceiverParty and OtherParty constructs exist in the header section where OtherParty can be used to identify any additional parties that might be involved in the process.
  - DocumentReference construct for inclusion of book references such as ISBN10, ISBN13, Title, Author, etc.
  - Total number of pages being specified in the ContentOrderOfMatterComponent section.
  - Product Identifier of the book product .
  - OtherDate construct that can be used by the receiver for prioritization.

- ContentOrderOfMatterComponent section which is repeatable
  - Product Identifier of the book component that correlates to the SpecComponent in the BookSpecification e-Document.
  - BookClassification and BookSubClassification used to identify the type of component.
  - PrepContentOrderOfMatter construct containing the file sequencing and optional folio detail.

Business Rules for ContentOrderOfMatter

General Business Rules

Identifier	Business Rule
COM001	Each ContentOrderOfMatter e-Document is limited to a single book title but can contain specifications for multiple components such as text and inserts.
COM002	ContentOrderOfMatterComponent is an optional group within the e-Document but is required for ContentOrderOfMatterStatusType of Original or Replaced.
COM003	ContentOrderOfMatter e-Document must contain a PrepContentOrderOfMatter iteration for all of the associated content files.

Processing the ContentOrderOfMatter

For Compositors the ContentOrderOfMatter e-Document is sent along with the content files for processing.

For Print suppliers the ContentOrderOfMatter e-Document can be sent prior to or at the same time as the BookSpecification that contains the metadata required for preflighting.

For both Compositors and Print suppliers, the Preflight e-Document serves as the status response and should contain the references ContentOrderOfMatterNumber and ContentOrderOfMatterVersionNumber.

ContentOrderOfMatter processing depends on the value in the status field ContentOrderOfMatterStatusType at the e-Document root level. There is only one status field in the e-Document.

Status Values Used When Processing the ContentOrderOfMatter

The following status values of ContentOrderOfMatterStatusType are used at the ContentOrderOfMatter root level:

- 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.
- Cancelled - The supplied information is cancelled.

ContentOrderOfMatter e-Document versions must be processed in an ascending order to ensure the correct processing of replacements and/or cancellations. Versions of the ContentOrderOfMatter are controlled by TransactionHistoryNumber when it is supplied in the e-Document. Otherwise it is controlled by the issue date and time of the e-Document (DocumentIssueDate). When TransactionHistoryNumber is not used, then

the sender has to secure that two versions don't get the same issue date and time.

Processing order of a new version is determined by

1. TransactionHistoryNumber is higher in the new version than in earlier processed versions of ContentOrderOfMatter with the same DocumentNumber and the same SenderParty.
2. If TransactionHistoryNumber isn't used, then the issue date of the new version has to be later than the issue date of earlier processed versions of ContentOrderOfMatter with the same DocumentNumber and the same SenderParty.

When a replaced e-document comes as the first e-document the receiving party must be able to accept a replace without having the original e-document.

E-document versions not fulfilling above rules have to be rejected.

E.g. the replaced e-document might be the first one that arrives and it is updated in the system. Then later the original e-document arrives. In this case the original e-document must be rejected.

Understanding the Diagrams and Content

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

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

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

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

- Content Model and Cardinality operate together to determine if the element or attribute are required in the instance document.
- The same attribute can never appear multiple times in the same element so, you will never see a multiple cardinality indicator.

Content model indicators:

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

- (sequence)

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

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

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

Cardinality indicators:

- Dotted line around element or attribute.

  A single instance of the item can optionally exist.
- Dotted line around item with range indicated below.

  Multiple instances of the item can optionally exist.
- Solid line around item.

  A single instance of the item must exist.
- Solid line around item with range indicated below

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

Datatype indication:

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

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

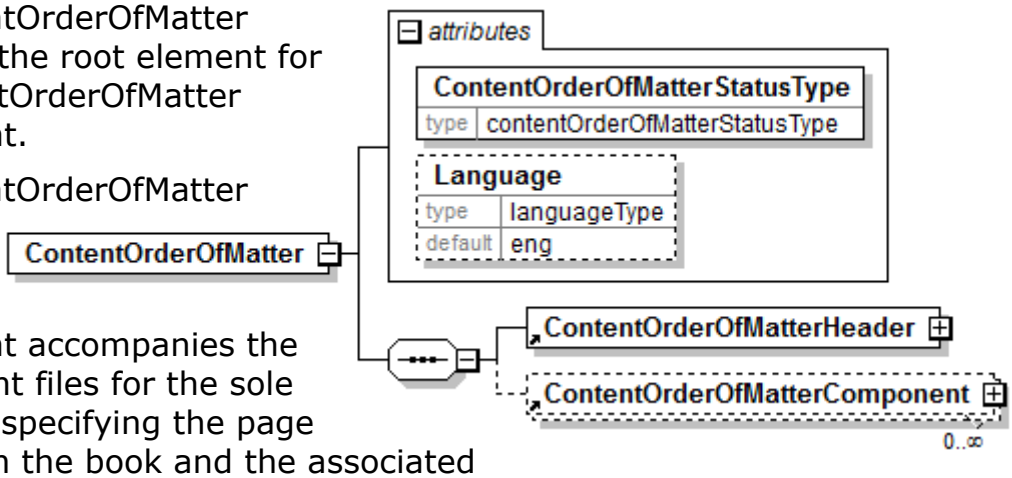
Elements can either have content that is textual/numeric in nature or content that is made up of additional elements and/or attributes.

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

ContentOrderOfMatter Root Element

ContentOrderOfMatter

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



The ContentOrderOfMatter e-Document accompanies the prep content files for the sole purpose of specifying the page sequence in the book and the associated folio information.

ContentOrderOfMatterStatusType [attribute]

ContentOrderOfMatterStatusType is mandatory. A single instance is required.

Identifies the status of the entire ContentOrderOfMatter e-Document.

This item is restricted to the following list.

Cancelled

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

Original

The supplied information is the first version of that information.

Replaced

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

Language [attribute]

Language is optional. A single instance might exist.

The valid Alpha 2- and Alpha 3-character list of language codes in the ISO 639-1 and 639-2 international standards.

Information on the content of this attribute is available at: https://www.loc.gov/standards/iso639-2/php/code_list.php

hrough the application of an addendum to the standard.

Refer to Language definition for any enumerations.

(sequence)

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

ContentOrderOfMatterHeader

ContentOrderOfMatterHeader is mandatory. A single instance is required.

Information that applies to the entire ContentOrderOfMatter e-Document.

ContentOrderOfMatterComponent

ContentOrderOfMatterComponent is optional. Multiple instances might exist.

Group element used to identify all the necessary component information for the ContentOrderOfMatter e-Document.

Primary Elements

ContentOrderOfMatterHeader

Information that applies to the entire ContentOrderOfMatter e-Document.

(sequence)

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

DocumentNumber

DocumentNumber mandatory. A single instance is required.

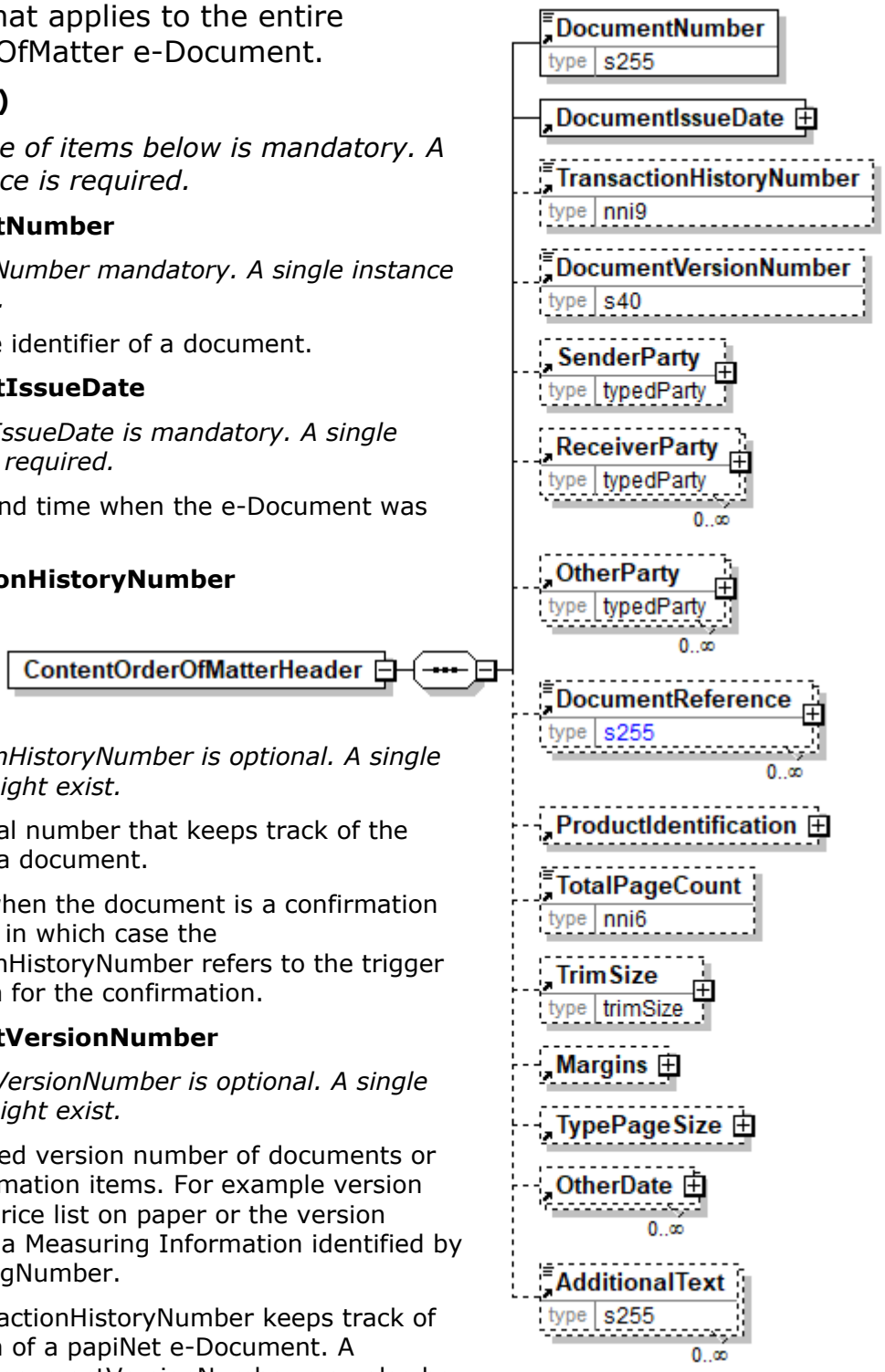
The unique identifier of a document.

DocumentIssueDate

DocumentIssueDate is mandatory. A single instance is required.

The date and time when the e-Document was issued.

TransactionHistoryNumber



TransactionHistoryNumber is optional. A single instance might exist.

A sequential number that keeps track of the version of a document.

However when the document is a confirmation document, in which case the TransactionHistoryNumber refers to the trigger transaction for the confirmation.

DocumentVersionNumber

DocumentVersionNumber is optional. A single instance might exist.

The assigned version number of documents or other information items. For example version 2.12 of a price list on paper or the version number of a Measuring Information identified by a MeasuringNumber.

N.B. TransactionHistoryNumber keeps track of the version of a papiNet e-Document. A separate DocumentVersionNumber may also be assigned to an e-Document.

SenderParty

SenderParty is optional. A single instance might exist.

The business entity issuing the e-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 optional. Multiple instances might exist.

The business entity for whom the e-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.

OtherParty

OtherParty is optional. Multiple instances might exist.

An organisation or business entity other than those specifically detailed within a e-Document.

DocumentReference

DocumentReference is optional. Multiple instances might exist.

An element detailing relevant references pertaining to the papiNet e-Document as indicated by the DocumentReferenceType and AssignedBy.

ProductIdentification

ProductIdentification is optional. A single instance might exist.

A grouping element designed to communicate product identification related to the parent element that contains this item.

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".

TrimSize

TrimSize is optional. A single instance might exist.

A grouping element designed to communicate the finished page size of the book product that includes the length, width, Bulk and Spine thickness elements.

Margins

Margins is optional. A single instance might exist.

A grouping element designed to communicate the size of the "white space" that surrounds the content of a page.

TypePageSize

TypePageSize is optional. A single instance might exist.

A grouping element designed to communicate the dimensions of the page content that includes the length and width elements.

OtherDate

OtherDate is optional. Multiple instances might exist.

A date that may not be specifically detailed within a document (example: print date at the PurchaseOrderLineItem).

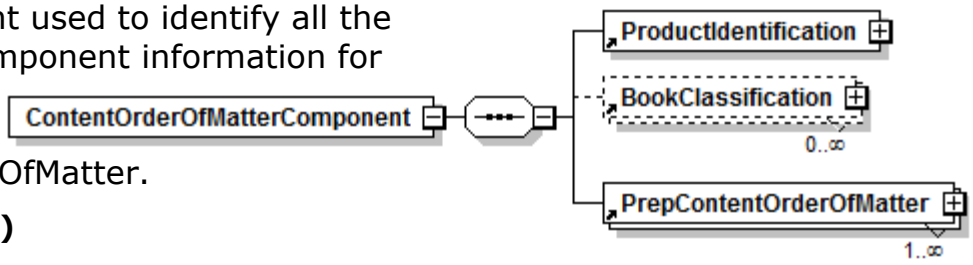
AdditionalText

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.

ContentOrderOfMatterComponent

Group element used to identify all the necessary component information for ContentOrderOfMatter.



(sequence)

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

ProductIdentification

ProductIdentification is mandatory. A single instance is required.

A grouping element designed to communicate product identification related to the parent element that contains this item.

BookClassification

BookClassificationt is optional. Multiple instances might exist.

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

PrepContentOrderOfMatter

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

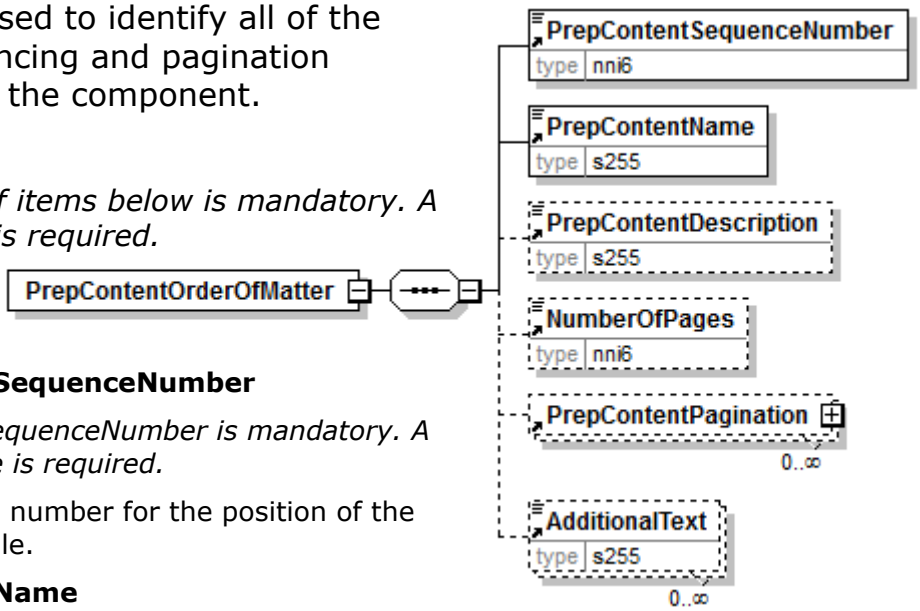
Group element used to identify all of the necessary sequencing and pagination requirements for the component.

PrepContentOrderOfMatter

Group element used to identify all of the necessary sequencing and pagination requirements for the component.

(sequence)

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



PrepContentSequenceNumber

PrepContentSequenceNumber is mandatory. A single instance is required.

The sequential number for the position of the prep content file.

PrepContentName

PrepContentName is mandatory. A single instance is required.

Name of the document or file that contains the content for the associated book or component.

PrepContentDescription

PrepContentDescription is optional. A single instance might exist.

A textual description of the prep content file.

NumberOfPages

NumberOfPages is optional. A single instance might exist.

The number of pages.

PrepContentPagination

PrepContentPagination is optional. Multiple instances might exist.

Group element used to identify all of the folio pagination.

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.

ContentOrderOfMatter Business Scenarios

ContentOrderOfMatter Scenario Listing

Scenario A	Buyer/Publisher sends prep content files and the ContentOrderOfMatter e-Document with status type of Original containing the sequencing for the text component to the book Compositor. The Compositor successfully sequences the pages of the text component according to the specifications in the ContentOrderOfMatter e-Document into a single concatenated PDF file. The concatenated PDF file and the Preflight e-Document is returned to the Buyer/Publisher with the preflight status and references to the ContentOrderOfMatter e-Document. (The Buyer/Publisher then distributes the concatenated PDF content file to the Print supplier – see scenario C)
Scenario B	Buyer/Publisher sends prep content files and the ContentOrderOfMatter e-Document with status type of Original containing the sequencing for the text and insert components to the Print supplier. The supplier sequences the pages of each component according to the specifications in the ContentOrderOfMatter e-Document into separate PDF files and waits for the BookSpecification metadata to preflight the content files.
Scenario C	Buyer/Publisher sends the prep content files for the Text, Insert and Cover components, the ContentOrderOfMatter e-Document with status type of Original containing the sequencing for the text and insert components and the BookSpecification metadata to the Print supplier. The supplier sequences the pages of the text and insert components according to the specifications in the ContentOrderOfMatter e-Document into separate PDF files and uses the BookSpecification metadata to preflight the content files. The Preflight e-Document is returned with the preflight status and references to the ContentOrderOfMatter and BookSpecification e-Documents.
Scenario D	As response to a failure in the Preflight processing due to a page count difference in the text component, the Buyer/Publisher sends updated ContentOrderOfMatter and BookSpecification e-Documents with status of Replaced to the Print supplier. The supplier sequences

	the pages of the text component according to the updated specifications in the ContentOrderOfMatter e-Document and uses the metadata from the updated BookSpecification e-Document to preflight the content files. (Note: Buyer/Publisher may not send updated content files if the files were correct and only the page count values were incorrect in the e-Documents).
Scenario E	Buyer/Publisher sends a ContentOrderOfMatter e-Document with status of Cancelled to the Print supplier. The supplier follows internal standard procedures for deprecating the content specification data and files.

Scenario A

E-document	ContentOrderOfMatter
Scenario	Buyer/Publisher sends prep content files and the ContentOrderOfMatter e-Document with status type of Original containing the sequencing for the text component to the book Compositor. The Compositor successfully sequences the pages of the text component according to the specifications in the ContentOrderOfMatter e-Document into a single concatenated PDF file. The concatenated PDF file and the Preflight e-Document is returned to the Buyer/Publisher with the preflight status and references to the ContentOrderOfMatter e-Document.
Outcome	The text component pages are sequenced in the Compositor's system according to the specifications in the ContentOrderOfMatter e-Document.

Step 1	Prep content files and the ContentOrderOfMatter e-Document are generated by the buyer and received into the Compositor's system for sequencing.
	ContentOrderOfMatter
	• ContentOrderOfMatterStatusType value is Original
	• ContentOrderOfMatterHeader
	  • DocumentNumber and DocumentVersionNumber contain unique identifiers for the ContentOrderOfMatter e-Document
	  • DocumentIssueDate is required
	  • Total number of pages must be specified for confirmation that all pages have been received
	• ContentOrderOfMatterComponent
	  • Includes the Product Identifier for the text component
	  • Includes the name and the corresponding sequence number for each of the content files
	  • Folio information is not included

Step 2	The text component pages are sequenced into a single concatenated PDF file according to the values of the PrepContentSequenceNumber.
Step 3	The concatenated PDF file is returned to the Buyer/Publisher for distribution to the Print supplier.

Scenario B

E-document	ContentOrderOfMatter
Scenario	Buyer/Publisher sends prep content files and the ContentOrderOfMatter e-Document with status type of Original containing the sequencing for the text and insert components to the Print supplier. The supplier sequences the pages of each component according to the specifications in the ContentOrderOfMatter e-Document into separate PDF files and waits for the BookSpecification metadata to preflight the content files.
Outcome	The text and insert component pages are sequenced in the supplier's system according to the specifications in the ContentOrderOfMatter e-Document.

Step 1	Prep content files and the ContentOrderOfMatter e-Document are generated by the buyer and received into the supplier's system for sequencing.
	ContentOrderOfMatter
	• ContentOrderOfMatterStatusType value is Original.
	• ContentOrderOfMatterHeader
	  • DocumentNumber and DocumentVersionNumber contain unique identifiers for the ContentOrderOfMatter e-Document
	  • DocumentIssueDate is required
	  • Total number of pages must be specified for confirmation that all pages have been received
	• 2 instances of ContentOrderOfMatterComponent exist, 1 for each of the text and insert components
	  • Includes the Product Identifier of the component
	  • Includes the names of each of the content files and the corresponding sequence number
	  • Folio information for each of the content files is included

Step2	The text and insert component pages are sequenced in the supplier's system resulting in 2 PDF files, 1 for the text and 1 for the insert component

Scenario C

E-document	ContentOrderOfMatter, BookSpecification, Preflight
Scenario	Buyer/Publisher sends the prep content files for the text, insert and Cover components, the ContentOrderOfMatter e-Document with status type of Original containing the sequencing for the text and insert components and the BookSpecification metadata to the Print supplier. The print supplier sequences the pages of the text and insert components according to the specifications in the ContentOrderOfMatter e-Document into separate PDF files and uses the BookSpecification metadata to preflight the content files. The Preflight e-Document is returned with the preflight status and references to the ContentOrderOfMatter and BookSpecification e-Documents.
Outcome	The text and insert component pages are sequenced in the supplier's system according to the specifications in the ContentOrderOfMatter e-Document specification into separate PDF files; the metadata from the BookSpecification e-Document is used to preflight the text, insert and cover content files. The Preflight e-Document is generated with the resulting preflight status for each file and sent to the Buyer/publisher for processing.

Step 1	Prep content files, the ContentOrderOfMatter and BookSpecification e-Documents are generated by the buyer and received into the supplier's system for sequencing and preflighting.
	
	ContentOrderOfMatter
	• ContentOrderOfMatterStatusType value is Original.
	• ContentOrderOfMatterHeader
	  • DocumentNumber and DocumentVersionNumber contain unique identifiers for the ContentOrderOfMatter e-Document
	  • DocumentIssueDate is required
	  • Total number of pages must be specified for confirmation that all pages have been received
	• 2 instances of ContentOrderOfMatterComponent exist, 1 for each of the text and insert components
	  • Includes the Product Identifier of the component
	  • Includes the names of each of the content files and the corresponding sequence number
	
	BookSpecification
	• SpecStatusType is Original
	• SpecType value is either SpecContent or SpecOrder

	• Contains separate SpecComponent instances for the text, insert and cover components and their respective product identifiers; the product identifiers for the text and insert components match the product identifier values in the ContentOrderOfMatter e-Document
Step2	The text and insert component pages are sequenced in the supplier's system resulting in 2 PDF files, 1 for the text and 1 for the insert component; the content files for all 3 components are sent through the preflight process
Step 3	The Preflight e-Document is returned with the preflight status of "ActiveFree" and with the references ContentOrderOfMatterNumber, ContentOrderOfMatterVersionNumber, SpecificationNumber and SpecificationVersionNumber values

Scenario D

E-document	ContentOrderOfMatter, BookSpecification, Preflight
Scenario	As response to a failure in the Preflight processing due to a page count difference in the text component, the Buyer/Publisher sends updated ContentOrderOfMatter and BookSpecification e-Documents with status of Replaced to the Print supplier. The supplier sequences the pages of the text component according to the updated specifications in the ContentOrderOfMatter e-Document and uses the metadata from the updated BookSpecification e-Document to preflight the content files. (Note: Buyer/Publisher may not send updated content files if the files were correct and only the page count values were incorrect in the e-Documents)
Outcome	The pages are sequenced according to the updated ContentOrderOfMatter e-Document specification and the content files are preflighted according to the updated BookSpecification metadata. The Preflight e-Document is generated.

Step 1	Prep content files, the ContentOrderOfMatter and BookSpecification e-Documents are generated by the buyer and received into the supplier's system for sequencing and preflighting.
	ContentOrderOfMatter
	• ContentOrderOfMatterStatusType value is Replaced.
	• ContentOrderOfMatterHeader
	  • The DocumentNumber and the SenderParty identify which ContentOrderOfMatter e-Document that should be replaced
	  • DocumentIssueDate is updated and required.
	• ContentOrderOfMatterComponent
	  • Must include a Product Identifier for the component.
	  • Must include the names of each of the files and the corresponding sequence number
	  • Folio information is optional
	BookSpecification
	• SpecStatusType is Original.
	• SpecType value is either SpecContent or SpecOrder.
	• Contains separate SpecComponent instances for the text, insert and cover components and their respective product identifiers; the product identifiers for the text and insert components match the product identifier values in the ContentOrderOfMatter e-

	Document
Step2	The text component pages are sequenced. The metadata from the updated BookSpecification e-Document is used to preflight the content files and only the text file is sent through the preflight process
Step 3	The Preflight e-Document is returned with the preflight status of "ActiveFree" and with the references ContentOrderOfMatterNumber, ContentOrderOfMatterVersionNumber, SpecificationNumber and SpecificationVersionNumber

Scenario E

E-document	ContentOrderOfMatter, Preflight
Scenario	Buyer/Publisher sends a ContentOrderOfMatter e-Document with status of Cancelled to the Print supplier. The supplier follows internal standard procedures for deprecating the content specification data and files.
Outcome	The ContentOrderOfMatter data and files are deprecated.

Step 1	The ContentOrderOfMatter e-Document is generated by the buyer and received into the supplier's system for processing.
	ContentOrderOfMatter
	• ContentOrderOfMatterStatusType value is Cancelled.
	• ContentOrderOfMatterHeader
	  • The DocumentNumber and the SenderParty identify which ContentOrderOfMatter e-Document that should be deprecated.
	  • DocumentIssueDate is used for control of processing order for received ContentOrderOfMatter e-Documents with the same DocumentNumber and the same SenderParty.
	• ContentOrderOfMatterComponent is not included in the e-Document.

Step2	The supplier follows their internal standard process for deprecation of the data and files; the Preflight e-Document with status of "Destroyed" is returned.