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1 STATUS

1.1 Document Status

The status of this document is:

- Draft 11/04/2015
- Released for Public Comment 12/01/2015
- Final Specification 02/15/2016

1.2 Document Location

The location of this document is: http://www.idealliance.org/specifications/prose

1.3 About this Version

This new version of XML PROSE was developed to meet two goals:

- To migrate from the use of an XML DTD to an XML XSD as the authoritative schema language
- To add new functionality

New functionality added in XML PROSE V30R001 is documented in Appendix B.

Note: Every effort has been made so that this new version of XML PROSE is backwardly compatible with previous versions. This has been done in order to limit the scope of software updates required for implementation.

1.4 Version History

<table>
<thead>
<tr>
<th>Version Number</th>
<th>Release Date</th>
<th>Editor</th>
<th>Description</th>
</tr>
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<tr>
<td>V20R011</td>
<td>10/132004</td>
<td>Frank Montague</td>
<td>First XML Version of PROSE. Released along with an XML DTD</td>
</tr>
<tr>
<td>V30R001 Draft</td>
<td>12/01/2015</td>
<td>Kennedy</td>
<td>XML XSD released with this version for public comment</td>
</tr>
<tr>
<td>V30R001 Final</td>
<td>02/15/2016</td>
<td>Kennedy</td>
<td>Final Spec with Comments Resolved</td>
</tr>
</tbody>
</table>
2 INTRODUCTION

The XML PROSE specification is intended to provide a standardized format for Publishers to communicate job specifications to their Printer/Binder. This specification enforces certain formats for its data, but the specification does not define data values except in certain instances where simple codes are used to represent commonly used data values. These exceptions are defined by enumerations of the attributes and are limited to those enumerations.

This document will attempt to describe the standardized usage of the XML PROSE specification that has been outlined by the industry group that created the specification. This standardized implementation was determined by looking at number of Publisher and Printer/Binder requirements for the communication of information to external entities such as List Processors and the US Postal Service.

Because this document is meant to be a, “living”, document, any partner in the communication of job specifications may request changes to this specification and its implementation. These changes could include changes to the XML PROSE specification such as additional elements or modification of definitions. The request will be taken to the Idealliance B2B Committee responsible for the standard, for their consideration. If the change is adopted by the B2B Committee then it will be the expectation that any party that has implemented the specification will implement the change or changes so that all parties involved with the standard will be operating with the same version.

Any agreements reached regarding the timing and methods of transmitting, error notification, acknowledgement of receipt of an XML PROSE transmission and validation of data will be addressed through normal contractual business agreements.

Note: Strict enforcement of datatypes is often implemented with an XML schema. However for XML PROSE, a design decision has been made that the responsibility for enforcing datatypes will be with the scope of receiving systems and not to be enforced in the XML PROSE XSD itself. For example, the string length for a <PublicationName element has a recommended maximum of 64 characters. This restriction is not enforced by the XML PROSE XSD, but rather is to be enforced by systems receiving the XML PROSE message.

The following is a graphical view of the XML PROSE XSD schema structure. The graphical display of the XSD contains occurrence indicators and data type information. These indicators appear to the right of the element name in the XSD graphic and they have the following meanings:

- (blank) Required, a single instance
- [1..*] Required, a single instance, but may have multiple instances
- [0..1] Optional, a single instance
- [0..*] Optional, a single instance or possible multiple instances

The ControlCode attribute associated with all of the element groupings has the following possible enumerations:

- N indicates that this is a new or original specification
- A indicates that this is an addition to the specification
- C indicates that this is a change, delta, to a specification
- D indicates that this specification is to be deleted or canceled

2.1 XML PROSE XSD - Publication

The major element groups are shown below. Each element group is further defined.
2.2 **PubGeneral**

PubGeneral is a group of elements that is used to provide general information about the publication and in some instances this information will be used throughout the specification unless overridden at the individual specification level. Examples would be the Bind Type.

2.3 **PubSignature**

Group of elements is used to describe/define a unique Signature. A minimum of a single instance is required. The Signature can be a supplied piece such as a blow-in or saddle-stitch card, or even a CD as an example.
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>PubSignature</td>
<td></td>
</tr>
<tr>
<td>ControlCode</td>
<td></td>
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<tr>
<td>PubSignatureID</td>
<td>xs:string</td>
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<tr>
<td>PubSignatureName</td>
<td>xs:string</td>
</tr>
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<td>PubSignatureSectionNumber</td>
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</tr>
<tr>
<td>PubSignaturePositionInBook</td>
<td>xs:string</td>
</tr>
<tr>
<td>PubSignatureAttached</td>
<td></td>
</tr>
<tr>
<td>PubSignatureType</td>
<td>extension</td>
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<td>PubSignatureWidth</td>
<td>extension</td>
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</tr>
<tr>
<td>PubSignaturePagesBackOfBook</td>
<td>xs:string</td>
</tr>
<tr>
<td>PubSignatureAdvancePressDeliveredIndicator</td>
<td>extension</td>
</tr>
<tr>
<td>PubSignatureAllEditionsIndicator</td>
<td>extension</td>
</tr>
<tr>
<td>PubSignaturePressFormID</td>
<td>extension</td>
</tr>
<tr>
<td>PubSignaturePostalPages</td>
<td>extension</td>
</tr>
<tr>
<td>PubSignatureNetPrintOrder</td>
<td>xs:string</td>
</tr>
<tr>
<td>PubSignatureWasteAllowance</td>
<td>extension</td>
</tr>
<tr>
<td>PubSignatureWeight</td>
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</tr>
<tr>
<td>PubSignatureAdPercentage</td>
<td>extension</td>
</tr>
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<td>PubSignatureSource</td>
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<tr>
<td>PubSignatureVersionNumber</td>
<td>xs:string</td>
</tr>
<tr>
<td>PubSignatureABSplitsIdentifier</td>
<td>xs:string</td>
</tr>
</tbody>
</table>
2.4 PubSignaturePage

- PubSignaturePage
  - ControlCode
  - PubSignaturePageID
  - PubSignatureReference
  - PubSignaturePageFolio
  - PubSignaturePageRelativePosition
  - PubSignaturePagePlateFile
  - PubSignaturePageThumbnail
  - PubSignaturePageOtherFile
  - PubSignaturePageNotes
  - PubComponent
2.6 PubBindEditions

2.7 PubBindEditionDestination
2.8 PubBindEditionElement

Group of elements is used to define a press form such as number of deliveries the imposition ID and could be used to link binding elements that have split or run IDs to the form. (Currently this grouping is not used because it would give the publisher the responsibility of assigning a particular imposition that could also be tied to a unique press)

2.9 PubPressForm

Group of elements is used to define a press form such as number of deliveries the imposition ID and could be used to link binding elements that have split or run IDs to the form. (Currently this grouping is not used because it would give the publisher the responsibility of assigning a particular imposition that could also be tied to a unique press)

2.10 PubBinderyLayout

Group of elements is used to identify a predefined Bindery layout and was included provide a placeholder for information that was in the original Prose standard, but was never implemented. (Currently not used in any implementation)
2.11 PubSuppliedSignature

Group of elements is used to reference which Signatures identified in the PubSignature set are supplied signatures. This is an optional set only because there is no absolute requirement for an instance. If there is a supplied signature this is a **Required** set.

2.12 PubGatherSection

Group of elements is used to define a pre-gather function. The name section would have been better identified as a pre-gathered Signature, because it would be used to create a multiple signatures and/or component Signature. This then would be used to reference a signature defined in a PubSignature set.
2.13 **PubMessagingData**

Group of elements is intended to provide Signature messaging information. Currently there is some debate if this messaging data is pertinent to the XML PROSE specification as this information is currently provided by other means. This set was provided in the specification to provide some upward compatibility with the original version of Prose. *(Not currently implemented)*
3 PubGeneral Element

The following sections provide the definition of each PubGeneral element and child elements, providing examples where necessary.

3.1 PublicationName

Required – PublicationName is name or description of the Publication. This is a text field where the maximum recommended length is 64 characters.

3.2 PublisherName

Required – PublisherName is the name of the Publishing organization. This is a text field where the maximum recommended length is 64 characters.

3.3 PublicationCode

Optional – PublicationCode is used where there has been an established code established by the Publisher to identify the publication and the code has been communicated to all parties. The purpose is to have a shorthand ID that can be used further downstream in a process for reporting purposes.

3.4 PublicationListHouseCode

Optional – PublicationListHouseCode is used to identify a unique List House ID for the publication. PublicationListHouseCode is an Alpha-Numeric element with a maximum character length of 20 characters.

3.5 TransactionHistoryNumber

Required – TransactionHistoryNumber is a unique identifier of the transaction where the TransactionHistoryNumber is sequentially assigned to identify what version/revision of the specification is being communicated. The TransactionCreated data is system generated to provide additional identification of the version/revision of the specification. The format for Date is MMDDYYYY and for Time is HH:MM::SS
3.5.1 TransactionVersionNumber

Required – TransactionVersionNumber identifies what version/revision of the specification is being communicated. It is a text element with a maximum length of 64 characters. Optional.

3.5.2 TransactionAuthorizerName

Required – TransactionCreated identifies the date/time the file was generated. The Date element has a recommended format of MMDDYYYY and the Time element has a recommended format of HH:MM:SS.

3.6 PublicationIssueEvent

Required – PublicationIssueEvent is used to provide information to further identify a publication. This information can be provided optionally by name or date.

PublicationIssueEventName is used for designating none date oriented cover/event information. An example would be Fall-Winter. Maximum allowable length is 64 characters, but it is recommended that it not exceed 30 characters.

Optional – The PublicationCoverYear is a numeric element and has a length of 4 numeric characters. An example would be 2006.

Optional – The PublicationCoverMonth is a numeric element and has a length of 2 numeric characters. The permissible range is from 01 thru 12.

Optional – The PublicationCoverDay is a numeric element and has a length of 2 numeric characters within the range of 01 thru 31.

An example of the date elements concatenated would be YYYYMMDD

3.7 PublicationOnSaleHomeInformation

Optional – PublicationOnSaleInHome Information is used to provide planning information for distribution and a job completion.

This information can be expressed either by a specific date or by the week of the year. Both elements are numeric with the date in a format of MMDDYYYY and the WeekOfYear in a range of 01 thru 52. Note, that the week of year must be communicated associated with a date to all parties.
3.8 **PublicationBindTypeCode**

**Required** – PublicationBindTypeCode is used to identify the binding type for the Publication. The valid enumerations, (codes) are:

- Saddle
- Perfect
- Sidewire
- Spiral
- None

3.9 **PublicationTrimSize**

**Required** – PublicationTrimSize is used to provide the basic Trim Size for the whole book. The PubSignature is used to provide the Width & Height for the individual Signature if different from the general publication’s trim size.

Width is a numeric element specified in a decimal format and it is recommended that the dimension be provided in a 000.0000 format where the decimal is implied and specified by NumberOfDecimals.

Height is a numeric element specified in a decimal format and it is recommended that the dimension be provided in a 000.0000 format where the decimal is implied and specified by NumberOfDecimals.

3.10 **TransactionAuthorizer**

**Optional** – TransactionAuthorizerCode can be used to provide identification of a Print Buyer such as their Password, Pin Number or reference a Digital Signature. Text element with a maximum length of 64 characters, but it is recommended that this not exceed 30 characters.
3.11 **TransactionAuthorizerName**

**Optional** – TransactionAuthorizerName can be used to provide the name of the individual authorizing the printing. Text element with a maximum length of 64 characters, but it is recommended that this not exceed 30 characters.
4 PubSignature Element

4.1 PubSignatureID

Required – PubSignatureID is a primary key for this set. The element is to be implemented as a Numeric element with a maximum length of 10 characters. This element must be unique within this specification. This key is referenced in the PubSignaturePage set of elements to identify the Signature where the Page is assigned.

4.2 PubSignatureName

Required – PubSignatureName is a text element that has a maximum length of 64 characters. It is highly recommended that the length be limited to 30 characters so that the catching applications can utilize accurately. It is also highly recommended that the name be unique because it is referenced multiple times in the manufacturing process.

4.3 PubSignatureSectionNumber

Required – PubSignatureSectionNumber is used to identify the position in the book based on the Edition/Version. In a single Edition/Version book this would represent a logical pocket. If the Publisher is unfamiliar with the concept of Sections then this element will be the same as the PubSignaturePositionInBook. This is not the relative position in the book, but the actual, therefore the first Signature is always 1. See appendix for complete definition of Section as used in this specification.

4.4 PubSignaturePositionInBook

Required – PubSignaturePositionInBook is used similar to the Section to identify the placement of the Signature in Edition/Version of a book. This is not the relative position in the book, but the actual, therefore the first Signature is always 1. Frequently this is identified with the pocket sequence, but should always be actual position within the book.

4.5 PubSignatureAttached

Required – PubSignatureAttached is a text element that has a mandatory choice of Yes or No.

If Yes is chosen the enumerated value of Y will be in PubSignatureAttached element and there will be a Required element of PubSignatureAttachedMethod which has possible enumerated values of:

- PaperWrap
- PolyWrap
- Tipped
- DotWhack
• BellyBand

**Business Rule:** If Yes is chosen then it must be followed by a PubSignatureType of Onsert and then there are set rules for identifying PubBindElementPositionInBook.

If No is chosen the enumerated value of N will be in PubSignatureAttached

4.6 **PubSignatureType**

**Required** – PubSignatureType use is required for this implementation. The SigType possible enumerations are:

- Cover
- Pocket
- Blowin
- Bindin
- TipOn
- Onsert
- PaperWrap
- PolyWrap
- Sticker

There are a great number of types commonly used, but they should be mapped back to the enumeration that best fits. For example a dot whacked piece would map to Sticker.

Also note that in the context of instructions to the Printer/Binder this is the pocket type

4.7 **PubSignatureWidth**

**Required** – PubSignatureWidth is a numeric element with the Unit of Material identified and is in decimal format. The recommended decimal positions are 4 and would be presented as 000.0000 where the decimal is implied and identified by NumberOfDecimals. This is identified as the Trimmed Width
4.8 **PubSignatureHeight**

Required – **PubSignatureHeight** is a numeric element with the Unit of Material identified and is in decimal format. The recommended decimal positions are 4 and would be presented as 000.0000 where the decimal is implied and identified by NumberOfDecimals. This is identified as the Trimmed Height.

4.9 **PubSignatureNumberOfPages**

Required – **PubSignatureNumberOfPages** is optional in the XSD, but is required for a Perfect Bound signature and is highly recommended for all signature types. Numeric element whole integer, 00.

4.10 **PubSignaturePagesFrontOfBook**

Required – **PubSignaturePagesFrontOfBook** is optional in the dtd, but is required for Saddle type bound books and is highly recommended for Perfect bound books. Numeric element whole integer, 00.

4.11 **PubSignaturePagesBackOfBook**

Optional – **PubSignaturePagesBackOfBook** is optional in the dtd, but is required for Saddle type bound books. Numeric element whole integer, 00.

4.12 **PubSignatureAdvancePressDeliveredIndicator**

Optional – **PubSignatureAdvancePressDeliveredIndicator** is used to indicate whether a signature is considered an Advance signature. This term is used primarily by weekly publications to identify national signatures and signatures that can be shipped to another binding location.

4.13 **PubSignatureAllEditionsIndicator**

Optional – **PubSignatureAllEditionsIndicator** is used to indicate that this signature is used in all editions of this book.
4.14 PubSignaturePressFormID

Optional – PubSignaturePressFormID can be used to tie a Signature to a Press Form if one has been identified. A possible reason for including would be to tie binding elements which have split IDs to a Press Form.

4.15 PubSignaturePostalPages

Optional – PubSignaturePostalPages is optional in the XSD, but is required where Postal calculations are required. The Postal Pages may differ from the physical number of pages for a number of reasons. The data is numeric and should be presented to 4 decimals 000.0000 where the decimal is implied and identified by NumberOfDecimals.

4.16 PubSignatureNetPrintOrder

Optional – PubSignatureNetPrintOrder is an optional element in the dtd but should always be provided if available. If for some reason it is not available then enter zero. The element is a numeric and should be entered without any separators. 255 thousand = 255000

4.17 PubSignatureWasteAllowance

Optional – PubSignatureWasteAllowance is a percentage of waste allowance and is numeric to 4 decimal positions. Example 1.5% = 0015000 where the decimal is implied and identified by NumberOfDecimals.

4.18 PubSignatureWeight

Optional – PubSignatureWeight provides the weight of the Signature and is used to calculate the total weight of a book. Used primarily for Postal calculations. Numeric to 4 decimal positions. 000.0000 where the decimal is implied and identified by NumberOfDecimals. Note: A signature could actually be an element such as an inclusion of a First Class letter, in which case the weight would not apply to Periodical weight of the publication, but would apply to a separate First Class weight.
4.19 **PubSignatureAdPercentage**

Optional – PubSignatureAdPercentage is used to provide the percentage of a Signature is advertising based on Postal method of calculation. Numeric element and is recommended to provide to 4 decimal positions. Example 48.2% advertising would = 0482000 where the decimal is implied and identified by NumberOfDecimals.

4.20 **PubSignatureSource**

Optional – PubSignatureSource is a comment field that can be used to identify the source and/or shipping notes..

4.21 **PubSignatureVersionNumber**

Optional – PubSignatureVersionNumber is not currently identified

4.22 **PubSignatureABSplitsIdentifier**

Optional – PubSignatureABSplitsIdentifier is a text element, usually 1 character used to identify a Signature as the A or B or C, etc. version of a random split, every other copy split, every other lift split, or some other form of split breakdown.

4.23 **PubSignaturePressSplitsIdentifier**

Optional – PubSignaturePressSplitsIdentifier is required if Signature is part of a multi-signature press run. Numeric, example 2 means Press Run number 2.

4.24 **PubSignatureSelectiveBindIndicator**

Optional – PubSignatureSelectiveBindIndicator indicates that Signature will be bound selectively. Y or N or the valid enumerations.
4.25 **PubSignatureBasisWeight**

**Optional** – PubSignatureBasisWeight is a numeric element that is required for Postal calculations and recommended for all Signatures to identify the paper to be used. The recommended presentation is to 1 decimal position – 000.0 where the decimal is implied and identified by NumberOfDecimals. Basis Size is required to accurately define the Basis Weight and will use the standard enumeration of which the most common for magazines is Text which is 25 X 38.

4.26 **PubSignaturePaperGradeName**

**Optional** – PubSignaturePaperGradeName is a text element with a maximum length of 64 characters. Example Supplier XYZ Velocity Gloss.

4.27 **PubSignaturePaperCaliper**

**Optional** – PubSignaturePaperCaliper is a numeric element that will provide the caliper of one sheet of paper. Recommended to present as 4 decimal positions, 000.0000. Is used to calculate the thickness of a book for Postal reasons or where the Basis Weight is heavy and will be the more consistent measurement of the paper.

4.28 **PubSignatureNotes**

**Optional** – PubSignatureNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.
4.29 **PubSignatureSignatureIndicator**

Optional – PubSuppliedSignatureIndicator is a one character element with an enumerated attribute of:

- Y indicating that this is a Supplied Signature
- N indicating that this is a Printed Signature

4.30 **PubSignaturePage**

Required – PubSignaturePage at least one instance is required and the element set is repeatable. PubSignaturePage is further defined below.

4.30.1 **PubSignaturePageID**

Required – PubSignaturePageID is text element, but it is recommended that a unique numeric ID be used. This is a key element because this what a Component will use to affiliate itself with the Page. The maximum length is 30 characters.

4.30.2 **PubSignatureReference**

Required – PubSignatureReference is used to affiliate the Page with a Signature. This will be the PubSignatureID of the Signature the Page is being affiliated with.
4.30.3  PubSignaturePageFolio

Optional – PubSignaturePageFolio is optional in the dtd, but it is highly recommended that it is always present. The data is the Folio or page number. Example would be 32, 16-C. It is highly recommended that “No-Folio-16” be used where the folio is not wanted. This is to let the recipient no that the Folio was not omitted in error and assists in identifying it as page 16 for example.

4.30.4  PubSignaturePageRelativePosition

Required – PubSignaturePageRelativePosition is a numeric element that positions the page from the first page of the Signature. The first page of a Signature will be a zero (0) as it is zero positions/displacement away from the first page. A two (2) would indicate that is the third page of a Signature.

4.30.5  PubSignaturePagePlateFile

Optional – PubSignaturePagePlateFile is a Text element used to provide a file name. The maximum length of the element is 255 characters, but it is highly recommended that it not exceed 30 characters.

4.30.6  PubSignaturePageThumbnail

Optional – PubSignaturePageThumbnail is a Text element used to provide a file name. The maximum length of the element is 255 characters, but it is highly recommended that it not exceed 30 characters.

4.30.7  PubSignaturePageOtherFile

Optional – PubSignaturePageOtherFile is a Text element used to provide a file name. The maximum length of the element is 255 characters, but it is highly recommended that it not exceed 30 characters.

4.30.8  PubSignaturePageNotes

Optional – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.
4.30.9 PubComponent

Required – PubComponent set of elements requires at least one instance of the set, but is repeatable. PubComponent is further defined below. See 2.5 for complete graphic.

4.30.9.1 PubComponentID

Optional – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.

4.30.9.2 PubComponentSignaturePageID

Optional – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.

4.30.9.3 PubComponentName

Optional – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.

4.30.9.4 PubComponentDescription

Optional – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.
4.30.9.5 PubComponentType

**Optional** – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.

4.30.9.6 PubComponentCode

**Optional** – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.

4.30.9.7 PubComponentMaterialType

**Optional** – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.

4.30.9.8 PubComponentReferenceIdentifier

**Optional** – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.

4.30.9.9 PubComponentMaterialDescription

**Optional** – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.

4.30.9.10 PubComponentPickupIssueEventDate

**Optional** – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.
4.30.9.11  PubComponentPickupPublicationID

**Optional** – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.

```
<xs:element name="PubComponentPickupPublicationID" type="xs:string"/>
```

4.30.9.12  PubComponentOriginalReferenceIdentifier

**Optional** – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.

```
<xs:element name="PubComponentOriginalReferenceIdentifier" type="xs:string"/>
```

4.30.9.13  PubComponentColorBlack

**Optional** – PubComponentColorBlack identifies whether the color Black is used. Highly recommended that the element be implemented.

- **Y** = Yes, color is used
- **N** = No, color is not used

```
<xs:element name="PubComponentColorBlack" type="xs:string"/>
```

4.30.9.14  PubComponentColorBlackPercentCov

**Optional** – PubComponentColorBlackPercentCov Percentage of cover for this color, recommended format is 000.00 where the decimal is implied and identified by NumberOfDecimals.

```
<xs:element name="PubComponentColorBlackPercentCov" type="extension"/>
```

4.30.9.15  PubComponentColorMagenta

**Optional** – PubComponentColorBlack identifies whether the color Black is used. Highly recommended that the element be implemented.

- **Y** = Yes, color is used
- **N** = No, color is not used

```
<xs:element name="PubComponentColorMagenta" type="xs:string"/>
```

4.30.9.16  PubComponentColorMagentaPercentCov

**Optional** – PubComponentColorBlackPercentCovPercentage of cover for this color, recommended format is 000.00 where the decimal is implied and identified by NumberOfDecimals.
Optional – PubComponentColorBlack identifies whether the color Black is used. Highly recommended that the element be implemented.

- Y = Yes, color is used
- N = No, color is not used

Optional – PubComponentColorBlackPercentCovPercentage of cover for this color, recommended format is 000.00 where the decimal is implied and identified by NumberOfDecimals.

Optional – PubComponentColorBlack identifies whether the color Black is used. Highly recommended that the element be implemented.

- Y = Yes, color is used
- N = No, color is not used

Optional – PubComponentColorBlackPercentCovPercentage of cover for this color, recommended format is 000.00 where the decimal is implied and identified by NumberOfDecimals.
4.30.9.21  PubComponentFifthColorPMS

**Optional** – PubComponentFifthColorPMS Number is a text element with a maximum length of 24 characters. This is from the Pantone Matching System which is a reference for providing an accurate method for the communication of matching and control of color. Please refer to the PMS codes. This can also be used to provide unique brand names of color. An example of a PMS code, PMS METALIC 8020

![PubComponentFifthColorPMSNumber](xs:string)

4.30.9.22  PubComponentFifthColorPercentCov

**Optional** – PubComponentFifthColorPercentCov Percentage of cover for this color, recommended format is 000.00 where the decimal is implied and identified by NumberOfDecimals.

![PubComponentFifthColorPercentCov](extension @xs:string)

4.30.9.23  PubComponentSixthColorPMS

**Optional** – PubComponentSixthColorPMSNumber is a text element with a maximum length of 24 characters. This is from the Pantone Matching System which is a reference for providing an accurate method for the communication of matching and control of color. Please refer to the PMS codes. This can also be used to provide unique brand names of color. An example of a PMS code, PMS GREEN 2X

![PubComponentSixthColorPMSNumber](xs:string)

4.30.9.24  PubComponentSixthColorPercentCov

**Optional** – PubComponentSixthColorPercentCov Percentage of cover for this color, recommended format is 000.00 where the decimal is implied and identified by NumberOfDecimals.

![PubComponentSixthColorPercentCov](extension @xs:string)

4.30.9.25  PubComponentSeventhColorPMS

**Optional** – PubComponentSeventhColorPMSNumber is a text element with a maximum length of 24 characters. This is from the Pantone Matching System which is a reference for providing an accurate method for the communication of matching and control of color. Please refer to the PMS codes. This can also be used to provide unique brand names of color. An example of a PMS code, PMS 8921

![PubComponentSeventhColorPMSNumber](xs:string)
4.30.9.26 PubComponentSeventhColorPercentCov

**Optional** – PubComponentSeventhColorPercentCovPercentage of cover for this color, recommended format is 000.00 where the decimal is implied and identified by NumberOfDecimals.

4.30.9.27 PubComponentBleedCode

**Optional** – PubComponentBleedCode is a text element used to identify how this component bleeds, (an extra amount of printed image that extends beyond the trim edge of a page). Original PROSE used the following:

- Full/All
- Top
- Bottom
- Left
- Right
- Top and Bottom
- Top and Left
- Top and Right
- Bottom and Left
- Bottom and Right
- Left and Right

It is recommended that text be used instead of codes so that there is no ambiguity on what is desired by the publisher.

4.30.9.28 PubComponentSize

**Required** – PubComponentSize provides for two methods of specifying size.

- **PubComponentSizeCode** is the recommended implementation. This is also the recognized method accepted by the USPS for postal calculations. See the appendix for documentation on page coordinates. An example code would be 0430-0430-2730-2730.
- **PubComponentHorizontalSize1** - indicates the Horizontal starting point of a component. Recommended format is 000.0000
- **PubComponentHorizontalSize2** - indicates the Horizontal ending point of a component. Recommended format is 000.0000
- **PubComponentVerticalSize1** - indicates the Vertical starting point of a component. Recommended format is 000.0000
- **PubComponentVerticalSize2** - indicates the Vertical ending point of a component. Recommended format is 000.0000.
4.30.9.29  PubComponentHorizontalOccupiedSize

Optional – PubComponentHorizontalOccupiedSize indicates the Horizontal size of a component, (Width). Recommended format is 000.0000 where the decimal is implied and identified by NumberOfDecimals.

4.30.9.30  PubComponentVerticalOccupiedSize

Optional – PubComponentVerticalOccupiedSize indicates the Vertical size of a component, (Height). Recommended format is 000.0000 where the decimal is implied and identified by NumberOfDecimals.
4.30.9.31  PubComponentColorGuideType

**Optional** – PubComponentColorGuideType is a text type element with a maximum length of 64 characters.

```
<xs:string/>
```

4.30.9.32  PubComponentNumberProofs

**Optional** – PubComponentNumberProofs is a numeric element. (Probably not used, present for compatibility with original PROSE).

```
<xs:string/>
```

4.30.9.33  PubComponentNumberColorGuides

**Optional** – PubComponentNumberColorGuides is a numeric element. (Probably not used, present for compatibility with original PROSE).

```
<xs:string/>
```

4.30.9.34  PubComponentMaterialAttributeCode

**Optional** – PubComponentMaterialAttributeCode is a text element that can be used to identify the type of material being delivered. (Probably not used, present for compatibility with original PROSE).

```
<xs:string/>
```

4.30.9.35  PubComponentContinuousSheetFlag

**Optional** – PubComponentContinuousSheetFlag is a text element with a maximum length of 1 character. Used to indicate that the component must run on a continuous sheet. Y = Yes.

```
<xs:string/>
```

4.30.9.36  PubComponentContinuousRelativePage

**Optional** - PubComponentContinuousRelativePage is obsolete, included for PROSE backward compatibility. Sample usage not available in a PROSE file.

```
<xs:string/>
```

4.30.9.37  PubComponentFirstContiguousPageReferenceName

**Optional** – PubComponentFirstContiguousPageReferenceName is used to reference the first page of a spread and would equal the PubSignaturePageID. Maximum length of 30 characters.

```
<xs:string/>
```
4.30.9.38  PubComponentABCRandomSplit

**Optional** – PubComponentABCRandomSplit is a text element and is **Required** if this component is part of a random split such as A, B, C, D, E. Length is 1 character. Note: This was included for some compatibility with PROSE. It is preferred to use the PubSignatureABSplit and then to place the component on the appropriate page, which will affiliate the component with the appropriate ABC Signature.

4.30.9.39  PubComponentSplitNumber

**Optional** – PubComponentSplitNumber is a numeric element and is **Required** if this component is part of a press run split such as run 1, run 3. Format is 0.

4.30.9.40  PubComponentPlateFile

**Optional** – PubComponentPlateFile is a text element used to provide a file name. The dtd has a maximum length of 255 characters but it is recommended that the length not exceed 30 characters. This element should not be used if a PubSignaturePlateFile is used for the entire page.

4.30.9.41  PubComponentThumbnail

**Optional** – PubComponentThumbnail is a text element used to identify a file name for a thumbnail image of the component. The dtd has a maximum length of 255 characters but it is recommended that the length not exceed 30 characters.

4.30.9.42  PubComponentOtherFile

**Optional** – PubComponentOtherFile is a text element used to identify a file name for an additional file that might be associated with the component. The dtd has a maximum length of 255 characters but it is recommended that the length not exceed 30 characters. Note: This data was included by request, but is not used by the typical publisher.

4.30.9.43  PubComponentSpread

**Optional** – PubComponentSpread is a text element that is **Required** if the component is part of a spread. The enumerations available are:

- Yes
- No
4.30.9.44  PubComponentNotes

Optional – PubComponentNotes is a text element with a maximum length of 64 characters used to provide additional free form information about a component. This element is repeatable.

4.31  PubSignatureCaliper

Optional – PubSignatureCaliper provides the thickness of the Signature and is used to calculate the total caliper of a book. Used primarily for Postal calculations. Numeric to 4 decimal positions, 000.0000 where the decimal is implied and identified by NumberOfDecimals.

4.32  PubSignatureMatchGroupId

Optional – PubSignatureMatchGroupId is optional, used to identify a group of two or more signatures that match when binding.

4.33  PubSignatureOperation

Optional – PubSignatureOperation is an optional set of elements listing the operations performed on the signature, such as UV coating. TPA.

4.34  PubSignatureAssemblyPosition

Optional – PubSignatureAssemblyPosition is optional, and identifies the position of the signature as it pertains to the assembly of the finished product. TPA.
5 **PubBindEditions**

5.1 **PubBindEditionID**

**Required** – PubBindEditionID is a alphanumeric element and is a key field. PubBindEditionElements are keyed to this. It is recommended that this be an integer with a maximum character length of 24.

5.2 **PubBindEditionInlineGroupID**

**Optional** – PubBindEditionInlineGroupID is an alphanumeric element with a maximum length of 24 characters that is used to identify a designated Edition that is produced inline and will be used with attached signatures to create a offline edition. When this element is present it implies that this edition is an offline produced edition with a common inline edition as a base book. See Appendix C for example.

5.3 **PubBindEditionUserName**

**Required** – PubBindEditionUserName is an alphanumeric element with a maximum length of 12 characters. Is used to identify the application that calculated the editions.

5.4 **PubBindEditionCreatorName**

**Required** – PubBindEditionCreatorName is an alphanumeric element with a maximum length of 12 characters. Is used to identify the application that calculated the editions.

5.5 **PubBindEditionQuantity**

**Optional** – PubBindEditionQuantity is a numeric element and is considered optional only when the quantities for an edition have not been calculated. It is highly recommended that this element be implemented. Format is 000000000.

5.6 **PubBindEditionAdPercent**

**Optional** – PubBindEditionAdPercent is a numeric element that is used to identify the advertising percentage of an edition for postal use. Recommended format is 000.0000 where the decimal is implied and identified by NumberOfDecimals.
5.7 **PubBindEditionCaliper**

Optional – PubBindEditionCaliper is a numeric element used to express the caliper of an edition. Used for postal calculations. Recommended format is 000.0000.

5.8 **PubBindEditionPostalPages**

Optional – PubBindEditionPostalPages is a numeric element. Recommended format is 000.0000 where the decimal is implied and identified by NumberOfDecimals. This the number of relative physical pages in an edition. Due to the variable sizes of inserts and cards, this number rarely reflects a whole number.

5.9 **PubBindEditionWeight**

Optional – PubBindEditionWeight is a numeric element and is the weight of a single copy of the edition. Recommended format is 000.0000 where the decimal is implied and identified by NumberOfDecimals.

5.10 **PubBindEditionWeightClass1**

Optional – PubBindEditionWeightClass1 is a numeric element and is the weight of all postal First Class components in the Edition. Recommended format is 000.0000 where the decimal is implied and identified by NumberOfDecimals.

5.11 **PubBindEditionWeightClassPeriodical**

Optional – PubBindEditionWeightClassPeriodical is a numeric element and is the weight of all of the Periodical class components in the Edition. Recommended format is 000.0000 where the decimal is implied and identified by NumberOfDecimals.
5.12 **PubBindEditionWeightClassStdA**

*Optional* – PubBindEditionWeightClassStdA is a numeric element and is the weight of all StandardA components in the Edition. Recommended format is 000.0000 where the decimal is implied and identified by NumberOfDecimals.

5.13 **PubBindEditionWeightRideAlong**

*Optional* – PubBindEditionWeightRideAlong is a numeric element and is weight of all experimental ride along components in the Edition. Recommended format is 000.0000 where the decimal is implied and identified by NumberOfDecimals.

5.14 **PubBindEditionWeightFirstNonConforming**

*Optional* – PubBindEditionWeightFirstNonConforming is a numeric element and is the weight of all First Class Non Conforming components in the Edition. Recommended format is 000.0000 where the decimal is implied and identified by NumberOfDecimals.

5.15 **PubBindEditionWeightStandardNonConforming**

*Optional* – PubBindEditionWeight StandardNonConforming is a numeric element and is the weight of all Standard A non-conforming components in the Edition. Recommended format is 000.0000 where the decimal is implied and identified by NumberOfDecimals.
5.16 **PubBindEditionDestination**

**Required** – PubBindEditionDestination at least one instance is required and the element set is repeatable. Provides the destinations for the parent edition.

5.17 **PubBindEditionElement**

**Required** – PubBindEditionElement at least one instance is required and the element set is repeatable. Provides the individual elements/components comprising the parent edition.
5.18 **PubBindEditionDestination**

### 5.18.1 PubBindDestinationID

**Required** – PubBindDestinationID is an alphanumeric element. It is recommended that this be an integer with a maximum character length of 24.

```xml
< PubBindDestinationID xs:string />
```

### 5.18.2 PubBindEditionID

**Required** – PubBindEditionID is an alphanumeric element and is a key field. PubBindEditionElements are keyed to this. It is recommended that this be an integer with a maximum character length of 24.

```xml
< PubBindEditionID xs:string />
```

### 5.18.3 PubBindDestinationDistrType

**Required** – PubBindDestinationDistrType is a text element with enumerated attributes. This list of codes is taken from the original Prose. This implies that the publisher will cross reference their Distribution Types to the generic ones in the attributes. This is intended to assist the Printer/Binder to identify internal destinations such as Off Line, Newsstand which will be bundled and a Sample preparation area.

- 00 = Newsstand
- 10 = Mail
- 20 = Special Orders
- 30 = Samples
- 40 = Supplementals
- 50 = Office Copies
- 60 = Complimentaries
- 70 = Bulk
- 80 Airline
- 90 Others

```xml
< PubBindDestinationDistrType extension xs:string >
  @ DistrType restriction ⇒ xs:NMToken
</ PubBindDestinationDistrType >
```

### 5.18.4 PubBindDestinationName

**Optional** – PubBindDestinationName is a text element with a maximum length of 64 characters. The element is used to provide a description of a sub count of an Edition destination.

```xml
< PubBindDestinationName xs:string />
```
5.18.5 PubBindDestinationDstrDescription

**Optional** – PubBindDestinationDstrDescription is a text element with a maximum length of 64 characters. The element is used to provide a description of a sub count of an Edition destination.

```
<xs:element name="PubBindDestinationDstrDescription" type="xs:string"/>
```

5.18.6 PubBindDestinationDistrPool

**Optional** – PubBindDestinationDistrPool is a text element, but it is recommended that it be an integer. This element historically has been used by the publisher to establish their internal distribution codes. It is recommended that the publisher cross reference these codes with the more generic codes defined in PubBindDestinationDistrType.

```
<xs:element name="PubBindDestinationDistrPool" type="xs:string"/>
```

5.18.7 PubBindDestinationQuantity

**Optional** – PubBindDestinationQuantity is a numeric element that is used to provide the quantity count for this destination. Format is 000000000.

```
<xs:element name="PubBindDestinationQuantity" type="xs:string"/>
```

5.18.8 PubBindDestinationNotes

**Optional** – PubBindDestinationNotes is a text element with a maximum length of 64 characters. Is used to provide additional information about this Edition’s destination. If more than 64 characters are needed the element is repeatable.

```
<xs:element name="PubBindDestinationNotes" type="xs:string"/>
```

5.19 PubBindEditionElement

The PubBindEditionElement set is used to identify an element that binds in an Edition. Note: there are a number of elements that are required, but there are only two significant elements which are the PubBindEditionID and PubSignatureID. The other elements were provided to provide some compatibility with the original PROSE. The additional elements are redundant information.

5.19.1 PubBindEditionID

**Required** – PubBindEditionID is an alphanumeric element and is a key field. PubBindEditionElements are keyed to this. It is recommended that this be an integer with a maximum character length of 24.

```
<xs:element name="PubBindEditionID" type="xs:string"/>
```
5.19.2 PubSignatureID

Required – The PubSignatureID is a primary key for this set. The element is to be implemented as a Numeric element with a maximum length of 10 characters. This element must be unique within this specification. This key is referenced in the PubBindEditionElement set of elements to identify the Signature of the assigned element.

5.19.3 PubSignatureName

Required – PubSignatureName is a text element that has a maximum length of 64 characters. It is highly recommended that the length be limited to 30 characters so that the catching applications can utilize accurately. It is also highly recommended that the name be unique because it is referenced multiple times in the manufacturing process.

5.19.4 PubSignatureSectionNumber

Required – PubSignatureSectionNumber is used to identify the position in the book based on the Edition/Version. In a single Edition/Version book this would represent a logical pocket. If the Publisher is unfamiliar with the concept of Sections then this element will be the same as the PubSignaturePositionInBook. This is not the relative position in the book, but the actual, therefore the first Signature is always 1, See appendix for complete definition of Section as used in this specification.

5.19.5 PubBindElementPositionInBook

Required – PubBindElementPositionInBook is used similar to the Section to identify the placement of the Element in Edition/Version of a book. This is not the relative position in the book, but the actual, therefore the first Element is always 1,

Business Rule: The PubBindEdition should be assembled where the PubBindElementPositionInBook for attached pieces will be positioned with the outermost wrap having the lowest value, (1), the Onsert would have the next lowest value, (2), and the Cover of the host book would be the nextlower value, (3). This rule will be implemented based on the PubSignatureAttached element being Yes in the PubSignature set.

5.19.6 PubBindElementPocket

Optional – PubBindElementPocket is a numeric element and will always be a whole number. Format is 000. This is the virtual pocket that the element will be fed from in binding.
5.19.7 PubBindElementSplitNumber

Optional – PubBindElementSplitNumber is a numeric element and is required if part of a Press split such as run number 1 or 2.

5.19.8 PubSignatureABCRandom

Optional – PubSignatureABCRandom is a text element and is required if part of a split such as A, B, C, etc.

5.19.9 PubBindElementNotes

Optional – PubBindElementNotes is a text element with a maximum length of 64 characters. Is used to provide additional information about this element. If more than 64 characters are needed the element is repeatable.

5.19.10 PubBindEditionElementMatchGroupId

Optional—PubBindEditionElementMatchGroupId is a text element. Obsolete, included for PROSE backward compatibility. Sample usage not available in a PROSE file.
6 PubPressForm

The PubPressForm is not currently being implemented. It is used to provide some information regarding the Press Form, such as the Run/Task within a Form and identify the Signature(s) associated with that Run/Task.

6.1 PubPressFormID

Required – PubPressFormID is a text element, but it is recommended that it be an integer as it is a key the PubSignatures point to. Maximum character length is 24 characters.

6.2 PubPressFormImpositionCode

Optional – PubPressFormImpositionCode is a text element that is used to identify a particular imposition. If this were to be implemented it would require having a knowledge of the printer’s impositions.

6.3 PubPressFormImpositionID

Optional – PubPressFormImpositionID in most cases would be the same as the PubPressFormImpositionCode. If this were to be implemented it would require having a knowledge of the printer’s impositions.

6.4 PubPressFormRunNumber

Required – PubPressFormRunNumber is a numeric element and is used to indicate which run is associated with this Press Form.

PubPressFormRunSignatureID – a single instance is Required, but is repeatable if needed. This key is the reference to PubSignature.

PubPressFormRunDeliveryPosition – a single instance is Required, but is repeatable to permit showing a signature may be delivered to one or many delivery points/positions.

6.5 PubPressFormNumberOfDeliveries

Required -PubPressFormNumberOfDeliveries is a numeric element that indicates the number of signatures or deliveries for this Form.
6.6 **PubPressFormNetImpressions**

**Required** – PubPressFormNetImpressions is a numeric element that is used to provide the net impressions for this Form/Run. Format is 000000000 where the decimal is implied and identified by NumberOfDecimals. Since this is always a whole number, the attributes are unnecessary, but are maintained for compatibility.

6.7 **PubPressFormOperation**

**Optional** – PubPressFormOperation is an optional list of operations performed on a press form, such as Aqueous Coating or Die Cutting. TPA.
7 PubBinderyLayout

The PubBinderyLayout is not currently implemented. This has been included to offer some compatibility with the original PROSE.
8 **PubSuppliedSignature**

For this implementation the PubSuppliedSignature is used primarily to identify the Signatures that were defined in PubSignature as supplied.

8.1 **PubSuppliedSignatureID**

**Required** – PubSuppliedSignatureID is a text element with a maximum of 24 characters, but since this is a key element it is recommended that it be an integer. This must be a unique identifier.

![PubSuppliedSignatureID](xs:string)

8.2 **PubSignatureID**

**Required** – PubSignatureID is a primary key for this set. The element is to be implemented as a Numeric element with a maximum length of 10 characters. This element *must be unique* within this specification. This key is the reference to PubSignature.

![PubSignatureID](xs:string)

8.3 **PubSignatureName**

**Required** – PubSignatureName is a text element that has a maximum length of 64 characters. It is highly recommended that the length be limited to 30 characters so that the catching applications can utilize accurately. It is also highly recommended that the name be unique because it is referenced multiple times in the manufacturing process.

![PubSignatureName](xs:string)

8.4 **PubSuppliedSignatureSupplierID**

**Optional** – PubSuppliedSignatureSupplierID is a text element with a maximum character length of 30 characters. This needs to be a unique identifier therefore it is recommended that it be an integer. This can be the suppliers ID.

![PubSuppliedSignatureSupplierID](xs:string)

8.5 **PubSuppliedSignatureInventoryID**

**Optional** – PubSuppliedSignatureInventoryID is a text element with a maximum character length of 30 characters used by the publisher to provide the printer recipient with a name they can automatically associate within their application.

![PubSuppliedSignatureInventoryID](xs:string)

8.6 **PubSuppliedSignatureSupplierName**

**Optional** – PubSuppliedSignatureSupplierName is a text element with a maximum length of 64 characters. This is used to identify the supplier of the component.
8.7 **PubSuppliedSignatureDueDate**

Optional – PubSuppliedSignatureDueDate is a numeric element used to notify the bindery when the supplied component is due at their facility. Format is MMDDYYYY.

8.8 **PubSuppliedSignatureDescription**

Optional – PubSuppliedSignatureDescription is a text element with a maximum length of 64 characters used to describe the supplied component.

8.9 **PubSuppliedSignatureOversStatus**

Optional – PubSuppliedSignatureOversStatus is a 1 character numeric element used to indicate what should be done with any remaining supplied signatures. The valid enumerations are:

- 1 = Save
- 2 = Dispose

8.10 **PubSuppliedSignatureSaveDate**

Optional – PubSuppliedSignatureSave Date is a numeric element with a maximum number of 8 characters. Is used to provide a date limit for saved overs. Format is MMDDYYYY.

8.11 **PubSuppliedSignatureNotes**

Optional – PubSuppliedSignatureNotes is a text element with a maximum length of 64 characters used to provide additional free form information about a supplied signature. This element is repeatable.

8.12 **PubSuppliedSignatureCosortGroupID**

Optional – PubSuppliedSignatureCosortGroupID is an alphanumeric element with a maximum length of 24 characters that can be used to identify a logical and/or physical group of common supplied signatures (bind elements) in a cosort binding operation. Maximum recommended length is 24 characters.
9 **PubGatherSection**

The PubGatherSection set of elements was designed to provide pre-gathering instructions for Signatures and or Components. The term section was taken from the original PROSE and in practical use is a slight misnomer. A number of the elements have never been implemented but were included to provide some compatibility with the original PROSE.

9.1 **PubGatherSectionID**

**Required** – PubGatherSectionID is a text element with a maximum of 24 Characters. Since this would be a key element and must be a unique identifier it is recommended that it be an integer. Current interpretation would have this be the PubSignatureID after the pre-gather operation.

![PubGatherSectionID](xs:string)

9.2 **PubGatherNewSectionNumber**

**Required** – PubGatherNewSectionNumber is used to identify the position in the book based on the Edition/Version. In a single Edition/Version book this would represent a logical pocket. If the Publisher is unfamiliar with the concept of Sections then this element will be the same as the PubSignaturePositionInBook. This is not the relative position in the book, but the actual, therefore the first Signature is always 1, *See appendix for complete definition of Section as used in this specification.*

![PubGatherNewSectionNumber](xs:string)

9.3 **PubGatherSectionHostNumber**

**Required** – PubGatherSectionHostNumber is a text element with a maximum length of 24 characters. Current interpretation of this element would be the PubSignatureID of the host Signature or Component.

![PubGatherSectionHostNumber](xs:string)

9.4 **PubGatherSectionGuestNumber**

**Required** – PubGatherSectionGuest is a single instance is required, but is *repeatable* if needed. Number is a text element with a maximum length of 24 characters. Current interpretation of this element would be the PubSignatureID of the Signature or Component being gathered with the host. Also, this can be used to identify one or many Signatures, supplied or printed, to be attached in a Retail Insert environment.

![PubGatherSectionGuestNumber](xs:string)

9.5 **PubGatherSectionGatherCode**

**Optional** – PubGatherSectionGatherCode is a numeric element that used to denote the type of gather. Valid enumerations are:

- 1 = Tip Front
- 2 = Tip Back
- 3 = Hanger Front
- 4 = Hanger Back
- 5 = Pre-gather Bind
- 6 = Pre-gather Stitch
- 7 = Magnastrip

### PubGatherSectionGatherVerticalDirectionCode

**Optional** – PubGatherSectionGatherVerticalDirectionCode is a text element that is used to denote the vertical direction. The valid enumerations are:

- H = Head
- F = Foot
- L = Float
- O = Other

### PubGatherSectionVerticalDistance

**Optional** – PubGatherSectionVerticalDistance has not been defined, but was included for some compatibility with the original PROSE.

### PubGatherSectionHorizontalGatherCode

**Optional** – PubGatherSectionHorizontalGatherCode is a text element that is to denote the pre-gather horizontal direction. The valid enumerations are:

- H = Head
- S = Spine
- L = Float
- O = Other
9.9 **PubGatherSectionHorizontalDistance**

**Optional** – PubGatherSectionHorizontalDistance **has not been defined**, but was included for some compatibility with the original PROSE.

9.10 **PubGatherSectionSpoilAllowance**

**Optional** – PubGatherSectionSpoilAllowance is a numeric element used to denote the spoilage allowance associated with the pre-gather. The recommended format is 000.0000 where the decimal is implied and identified by NumberOfDecimals.

9.11 **PubGatherSectionNotes**

**Optional** – PubGatherSectionNotes is a text element with a maximum length of 64 characters used to provide additional free form information about a pre-gather operation. This element is repeatable.
10 PubMessagingData

The PubMessagingData set of elements is used to provide messaging instructions for a Signature. This set is not currently been implemented but was included to offer some compatibility with the original PROSE.

10.1 PubMessagingDataID

Required – PubMessagingDataID is a text element but is used as a key for mapping to a PubSignature therefore it is recommended that this be implemented as an integer. Maximum length is 24 characters.

10.2 PubSignatureID

Required – PubSignatureID is a primary key for a Signature. The element is text, (Alpha-Numeric), element that must be unique within this specification and has a maximum length of 30 characters. This key is the reference to PubSignature.

10.3 PubMessagingDataRelativePageNumber

Required – PubMessagingDataRelativePageNumber is a numeric element and is used identify the page within a Signature where the message will occur. Defined as the number of pages from the first page of a Signature which is denoted as zero (0).

10.4 PubMessagingDataImagingDevice

Optional – PubMessagingDataImagingDevice is a text element used to denote the type of equipment used to apply the message. Maximum length is 64 characters.

10.5 PubMessagingDataFontInformation

Optional – PubMessagingDataFontInformation is a text element that is used to provide the font associated with the message. Maximum length is 30 characters.

10.6 PubMessagingDataMessageIdentifier

Optional – PubMessagingDataMessageIdentifier is a text element that is used to identify a message group. Maximum length is 30 characters. Since this could be a file identifier it is recommended that it be an integer.
10.7 **PubMessagingDataMessageOrientation**

*Optional* – PubMessagingDataMessageOrientation is a text element that is usually a code.

- $S$ = Parallel to the spine
- $F$ = Parallel to the foot

Maximum length is 30 characters.

10.8 **PubMessagingDataImageMethod**

*Optional* - PubMessagingDataImageMethod is a text element used to specify the method of applying the message such as Ink Jet. Maximum length is 30 characters.

10.9 **PubMessagingDataColorInformation**

*Optional* – PubMessageDataColorInformation is a text element. Currently there is not a defined use. Maximum length is 64 characters. If implemented this could be used like a note.
Appendix A  SECTIONS

A Section is roughly analogous to a pocket on a binding line. The book is broken up into Signatures that would go into each pocket on the binding line. Each Signature is assigned to its own unique Section. With a single version job it doesn’t seem important to have the Section concept. But when we introduce multiple version of a Signature let’s say with a black language change, the Section container will now hold those multiple Signatures. This allows the system to tell the bind line that there are alternative Signatures in a particular pocket that will allow the line to create multiple versions of a job.

In the selective environment, the analogy of a Section equaling a pocket does fall apart. In that case the system puts the Signatures from a Section in multiple pockets based on the user’s preference.

A Section is a group of unique signatures bound in a particular position in a book.

A unique Signature can be in one or many Sections.
XML PROSE V30R015 CHANGES/MODIFICATIONS

XML PROSE_V30R001 is an update from XML PROSE_V20R011.

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<tr>
<td></td>
<td>• PubSignatureCaliper, which houses the thickness of the signature</td>
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<tr>
<td></td>
<td>• PubSignatureMatchGroupId which identifies a group of two or more signatures that match when binding</td>
</tr>
<tr>
<td></td>
<td>• PubSignatureOperation, which is an optional list of operations performed on the signature, such as knockouts or UV coating. TPA.</td>
</tr>
<tr>
<td></td>
<td>• PubSignatureAssemblyPosition, which identifies the position of the signature as it pertains to the assembly of the finished product. TPA.</td>
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<th>PubSignatureType</th>
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<td>• Sticker</td>
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<td>• Tipped</td>
</tr>
<tr>
<td></td>
<td>• DotWhack</td>
</tr>
<tr>
<td></td>
<td>• BellyBand</td>
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<tr>
<th>PubPressForm</th>
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## Appendix C  ATTACHED METHOD/INLINE EDITIONS EXAMPLE

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Appendix D  XML PROSE XSD – STANDARD TYPES

- **Date**
  - xs:string

- **Height**
  - xs:string
  - @ UOM: restriction == xs:NMTOKEN
  - @ Sign: restriction == xs:NMTOKEN
  - @ NumberOfDecimals: restriction == xs:NMTOKEN

- **Measurement/Value**
  - xs:string
  - @ UOM: restriction == xs:NMTOKEN
  - @ Sign: restriction == xs:NMTOKEN
  - @ NumberOfDecimals: restriction == xs:NMTOKEN

- **No**
  - xs:string
  - @ N: restriction == xs:NMTOKEN

- **Time**
  - xs:string

- **WeekOfYear**
  - xs:string

- **Width**
  - xs:string
  - @ UOM: restriction == xs:NMTOKEN
  - @ Sign: restriction == xs:NMTOKEN
  - @ NumberOfDecimals: restriction == xs:NMTOKEN