



Version V30 R001

XML PROSE

Implementation Guide

February 15, 2016



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Table of Contents

1	Status.....	1
1.1	Document Status	1
1.2	Document Location	1
1.3	About this Version	1
1.4	Version History	1
2	Introduction	3
2.1	XML PROSE XSD - Publication	3
2.2	PubGeneral	4
2.3	PubSignature.....	4
2.4	PubSignaturePage	6
2.5	PubComponent	7
2.6	PubBindEditions	8
2.7	PubBindEditionDestination.....	9
2.8	PubBindEditionElement.....	10
2.9	PubPressForm	10
2.10	PubBinderyLayout	10
2.11	PubSuppliedSignature.....	11
2.12	PubGatherSection	11
2.13	PubMessagingData	12
3	PubGeneral Element.....	13
3.1	PublicationName	13
3.2	PublisherName.....	13
3.3	PublicationCode	13
3.4	PublicationListHouseCode	13
3.5	TransactionHistoryNumber.....	13
3.5.1	TransactionVersionNumber.....	14
3.5.2	TransactionAuthorizerName.....	14
3.6	PublicationIssueEvent	14
3.7	PublicationOnSaleHomeInformation	14
3.8	PublicationBindTypeCode	15
3.9	PublicationTrimSize.....	15
3.10	TransactionAuthorizer	15
3.11	TransactionAuthorizerName.....	16

4	PubSignature Element	17
4.1	PubSignatureID	17
4.2	PubSignatureName	17
4.3	PubSignatureSectionNumber.....	17
4.4	PubSignaturePositionInBook.....	17
4.5	PubSignatureAttached	17
4.6	PubSignatureType.....	18
4.7	PubSignatureWidth	18
4.8	PubSignatureHeight	19
4.9	PubSignatureNumberOfPages.....	19
4.10	PubSignaturePagesFrontOfBook.....	19
4.11	PubSignaturePagesBackOfBook	19
4.12	PubSignatureAdvancePressDeliveredIndicator	19
4.13	PubSignatureAllEditionsIndicator	19
4.14	PubSignaturePressFormID	20
4.15	PubSignaturePostalPages	20
4.16	PubSignatureNetPrintOrder	20
4.17	PubSignatureWasteAllowance.....	20
4.18	PubSignatureWeight	20
4.19	PubSignatureAdPercentage.....	21
4.20	PubSignatureSource	21
4.21	PubSignatureVersionNumber.....	21
4.22	PubSignatureABSplitsIdentifier	21
4.23	PubSignaturePressSplitsIdentifier.....	21
4.24	PubSignatureSelectiveBindIndicator.....	21
4.25	PubSignatureBasisWeight.....	22
4.26	PubSignaturePaperGradeName	22
4.27	PubSignaturePaperCaliper.....	22
4.28	PubSignatureNotes	22
4.29	PubSignatureSignatureIndicator	23
4.30	PubSignaturePage	23
4.30.1	PubSignaturePageID	23
4.30.2	PubSignatureReference	23
4.30.3	PubSignaturePageFolio.....	24
4.30.4	PubSignaturePageRelativePosition.....	24

4.30.5	PubSignaturePagePlateFile.....	24
4.30.6	PubSignaturePageThumbnail.....	24
4.30.7	PubSignaturePageOtherFile.....	24
4.30.8	PubSignaturePageNotes	24
4.30.9	PubComponent.....	25
4.30.9.1	PubComponentID	25
4.30.9.2	PubComponentSignaturePageID	25
4.30.9.3	PubComponentName	25
4.30.9.4	PubComponentDescription.....	25
4.30.9.5	PubComponentType.....	26
4.30.9.6	PubComponentCode	26
4.30.9.7	PubComponentMaterialType	26
4.30.9.8	PubComponentReferenceIdentifier	26
4.30.9.9	PubComponentMaterialDescription	26
4.30.9.10	PubComponentPickupIssueEventDate	26
4.30.9.11	PubComponentPickupPublicationID.....	27
4.30.9.12	PubComponentOriginalReferenceIdentifier	27
4.30.9.13	PubComponentColorBlack	27
4.30.9.14	PubComponentColorBlackPercentCov	27
4.30.9.15	PubComponentColorMagenta	27
4.30.9.16	PubComponentColorMagentaPercentCov	27
4.30.9.17	PubComponentColorCyan.....	28
4.30.9.18	PubComponentColorCyanPercentCov	28
4.30.9.19	PubComponentColorYellow.....	28
4.30.9.20	PubComponentColorYellowPercentCov.....	28
4.30.9.21	PubComponentFifthColorPMS	29
4.30.9.22	PubComponentFifthColorPercentCov	29
4.30.9.23	PubComponentSixthColorPMS	29
4.30.9.24	PubComponentSixthColorPercentCov	29
4.30.9.25	PubComponentSeventhColorPMS	29
4.30.9.26	PubComponentSeventhColorPercentCov	30
4.30.9.27	PubComponentBleedCode	30
4.30.9.28	PubComponentSize	30
4.30.9.29	PubComponentHorizontalOccupiedSize	31
4.30.9.30	PubComponentVerticalOccupiedSize	31

4.30.9.31	PubComponentColorGuideType.....	32
4.30.9.32	PubComponentNumberProofs.....	32
4.30.9.33	PubComponentNumberColorGuides.....	32
4.30.9.34	PubComponentMaterialAttributeCode.....	32
4.30.9.35	PubComponentContinuousSheetFlag.....	32
4.30.9.36	PubComponentContinuousRelativePage.....	32
4.30.9.37	PubComponentFirstContiguousPageReferenceName.....	32
4.30.9.38	PubComponentABCRandomSplit.....	33
4.30.9.39	PubComponentSplitNumber.....	33
4.30.9.40	PubComponentPlateFile.....	33
4.30.9.41	PubComponentThumbnail.....	33
4.30.9.42	PubComponentOtherFile.....	33
4.30.9.43	PubComponentSpread.....	33
4.30.9.44	PubComponentNotes.....	34
4.31	PubSignatureCaliper.....	34
4.32	PubSignatureMatchGroupId.....	34
4.33	PubSignatureOperation.....	34
4.34	PubSignatureAssemblyPosition.....	34
5	PubBindEditions.....	35
5.1	PubBindEditionID.....	35
5.2	PubBindEditionInlineGroupId.....	35
5.3	PubBindEditionUserName.....	35
5.4	PubBindEditionCreatorName.....	35
5.5	PubBindEditionQuantity.....	35
5.6	PubBindEditionAdPercent.....	35
5.7	PubBindEditionCaliper.....	36
5.8	PubBindEditionPostalPages.....	36
5.9	PubBindEditionWeight.....	36
5.10	PubBindEditionWeightClass1.....	36
5.11	PubBindEditionWeightClassPeriodical.....	36
5.12	PubBindEditionWeightClassStdA.....	37
5.13	PubBindEditionWeightRideAlong.....	37
5.14	PubBindEditionWeightFirstNonConforming.....	37
5.15	PubBindEditionWeightStandardNonConforming.....	37
5.16	PubBindEditionDestination.....	38

5.17	PubBindEditionElement.....	38
5.18	PubBindEditionDestination.....	39
5.18.1	PubBindDestinationID.....	39
5.18.2	PubBindEditionID.....	39
5.18.3	PubBindDestinationDistrType.....	39
5.18.4	PubBindDestinationName.....	39
5.18.5	PubBindDestinationDstrDescription	40
5.18.6	PubBindDestinationDistrPool.....	40
5.18.7	PubBindDestinationQuantity.....	40
5.18.8	PubBindDestinationNotes.....	40
5.19	PubBindEditionElement.....	40
5.19.1	PubBindEditionID.....	40
5.19.2	PubSignatureID	41
5.19.3	PubSignatureName	41
5.19.4	PubSignatureSectionNumber	41
5.19.5	PubBindElementPositionInBook.....	41
5.19.6	PubBindElementPocket.....	41
5.19.7	PubBindElementSplitNumber	42
5.19.8	PubSignatureABCRandom	42
5.19.9	PubBindElementNotes.....	42
5.19.10	PubBindEditionElementMatchGroupId	42
6	PubPressForm.....	43
6.1	PubPressFormID.....	43
6.2	PubPressFormImpositionCode	43
6.3	PubPressFormImpositionID	43
6.4	PubPressFormRunNumber.....	43
6.5	PubPressFormNumberOfDeliveries.....	43
6.6	PubPressFormNetImpressions	44
6.7	PubPressFormOperation.....	44
7	PubBinderyLayout.....	45
8	PubSuppliedSignature.....	47
8.1	PubSuppliedSignatureID	47
8.2	PubSignatureID	47
8.3	PubSignatureName	47
8.4	PubSuppliedSignatureSupplierID.....	47

8.5	PubSuppliedSignatureInventoryID	47
8.6	PubSuppliedSignatureSupplierName.....	47
8.7	PubSuppliedSignatureDueDate	48
8.8	PubSuppliedSignatureDescription	48
8.9	PubSuppliedSignatureOversStatus.....	48
8.10	PubSuppliedSignatureSaveDate.....	48
8.11	PubSuppliedSignatureNotes	48
8.12	PubSuppliedSignatureCosortGroupID	48
9	PubGatherSection	49
9.1	PubGatherSectionID	49
9.2	PubGatherNewSectionNumber.....	49
9.3	PubGatherSectionHostNumber.....	49
9.4	PubGatherSectionGuestNumber	49
9.5	PubGatherSectionGatherCode	49
9.6	PubGatherSectionGatherVerticalDirectionCode	50
9.7	PubGatherSectionVerticalDistance	50
9.8	PubGatherSectionHorizontalGatherCode	50
9.9	PubGatherSectionHorizontalDistance.....	51
9.10	PubGatherSectionSpoilAllowance	51
9.11	PubGatherSectionNotes.....	51
10	PubMessagingData	53
10.1	PubMessagingDataID	53
10.2	PubSignatureID	53
10.3	PubMessagingDataRelativePageNumber.....	53
10.4	PubMessagingDataImagingDevice	53
10.5	PubMessagingDataFontInformation.....	53
10.6	PubMessagingDataMessageIdentifier	53
10.7	PubMessagingDataMessageOrientation.....	54
10.8	PubMessagingDataImageMethod	54
10.9	PubMessagingDataColorInformation	54
Appendix A	Sections.....	55
Appendix B	XML PROSE V30R015 Changes/Modifications	57
Appendix C	Attached Method/Inline Editions Example	59
Appendix D	XML PROSE XSD – Standard Types.....	61

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

Version Number	Release Date	Editor	Description
V20R011	10/13/2004	Frank Montague	First XML Version of PROSE. Released along with an XML DTD
V30R001 Draft	12/01/2015	Kennedy	XML XSD released with this version for public comment
V30R001 Final	02/15/2016	Kennedy	Final Spec with Comments Resolved

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:

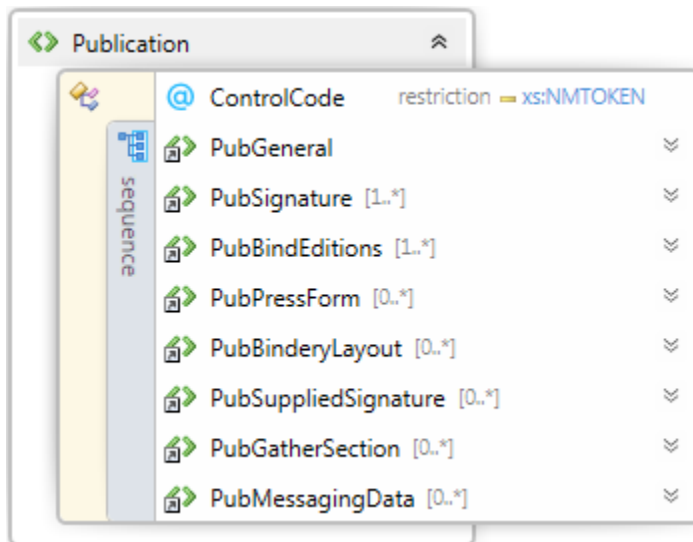
- (blank) Required, a single instance
- [1..*] Required, a single instance, but may have multiple instances
- [0..1] Optional, a single instance
- [0..*] Optional, a single instance or possible multiple instances

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

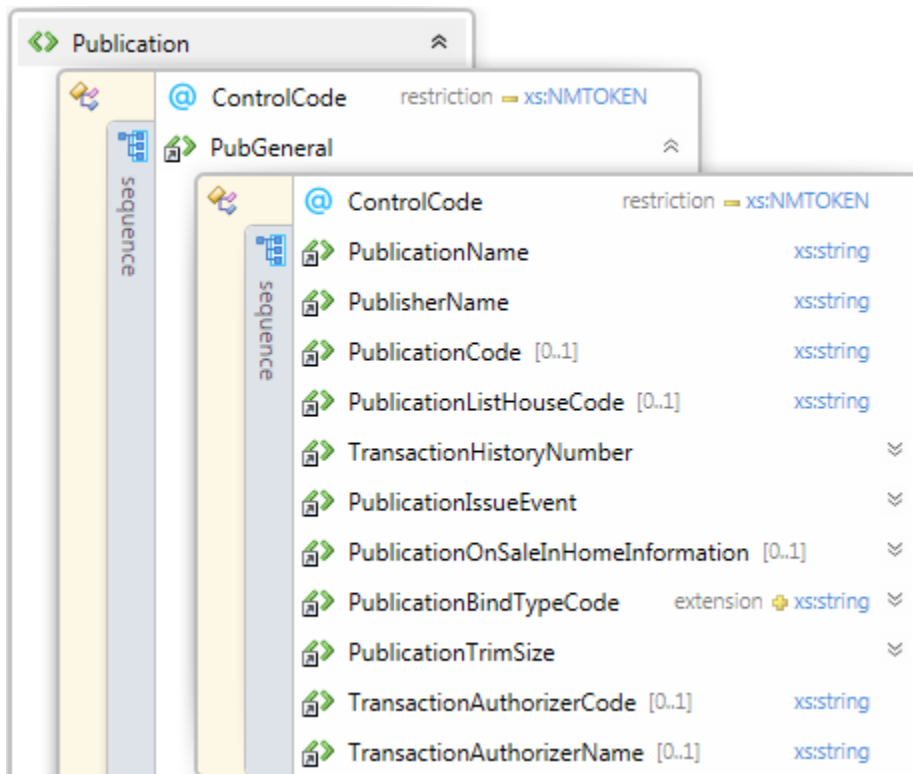
2.1 XML PROSE XSD - Publication

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.

PubSignature	
ControlCode	restriction = xs:NMTOKEN
PubSignatureID	xs:string
PubSignatureName	xs:string
PubSignatureSectionNumber	xs:string
PubSignaturePositionInBook	xs:string
PubSignatureAttached	
PubSignatureType	extension + xs:string
PubSignatureWidth	extension + xs:string
PubSignatureHeight	extension + xs:string
PubSignatureNumberOfPages	xs:string
PubSignaturePagesFrontOfBook	xs:string
PubSignaturePagesBackOfBook [0..1]	xs:string
PubSignatureAdvancePressDeliveredIndicator [0..1]	extension + xs:string
PubSignatureAllEditionsIndicator [0..1]	extension + xs:string
PubSignaturePressFormID [0..1]	xs:string
PubSignaturePostalPages [0..1]	extension + xs:string
PubSignatureNetPrintOrder [0..1]	xs:string
PubSignatureWasteAllowance [0..1]	extension + xs:string
PubSignatureWeight [0..1]	extension + xs:string
PubSignatureAdPercentage [0..1]	extension + xs:string
PubSignatureSource [0..1]	xs:string
PubSignatureVersionNumber [0..1]	xs:string
PubSignatureABSplitsIdentifier [0..1]	xs:string


































	PubSignaturePressSplitsIdentifier [0..1]	xs:string
	PubSignatureSelectiveBindIndicator [0..1]	extension  xs:string 
	PubSignatureBasisWeight [0..1]	extension  xs:string 
	PubSignaturePaperGradeName [0..1]	xs:string
	PubSignaturePaperCaliper [0..1]	extension  xs:string 
	PubSignatureNotes [0..1]	xs:string
	PubSuppliedSignatureIndicator [0..1]	extension  xs:string 
	PubSignaturePage [1..*]	
	PubSignatureCaliper [0..1]	extension  xs:string 
	PubSignatureMatchGroupId [0..1]	xs:string
	PubSignatureOperation [0..*]	
	PubSignatureAssemblyPosition [0..*]	xs:string

2.4 PubSignaturePage

	ControlCode	restriction — xs:NMTOKEN
sequence	PubSignaturePageID	xs:string
	PubSignatureReference	xs:string
	PubSignaturePageFolio [0..1]	xs:string
	PubSignaturePageRelativePosition	xs:string
	PubSignaturePagePlateFile [0..1]	xs:string
	PubSignaturePageThumbnail [0..1]	xs:string
	PubSignaturePageOtherFile [0..1]	xs:string
	PubSignaturePageNotes [0..1]	xs:string
	PubComponent [1..*]	

2.5 PubComponent

PubComponent		
@	ControlCode	restriction xs:NMTOKEN
>	PubComponentID	xs:string
>	PubComponentSignaturePageID	xs:string
>	PubComponentName	xs:string
>	PubComponentDescription [0..1]	xs:string
>	PubComponentType [0..1]	extension xs:string
>	PubComponentCode [0..1]	xs:string
>	PubComponentMaterialType [0..1]	extension xs:string
>	PubComponentReferenceIdentifier [0..1]	xs:string
>	PubComponentMaterialDescription [0..1]	xs:string
>	PubComponentPickupIssueEventDate [0..1]	xs:string
>	PubComponentPickupPublicationID [0..1]	xs:string
>	PubComponentOriginalReferenceIdentifier [0..1]	xs:string
>	PubComponentColorBlack [0..1]	xs:string
>	PubComponentColorBlackPercentCov [0..1]	extension xs:string
>	PubComponentColorMagenta [0..1]	xs:string
>	PubComponentColorMagentaPercentCov [0..1]	extension xs:string
>	PubComponentColorCyan [0..1]	xs:string
>	PubComponentColorCyanPercentCov [0..1]	extension xs:string
>	PubComponentColorYellow [0..1]	xs:string
>	PubComponentColorYellowPercentCov [0..1]	extension xs:string
>	PubComponentFifthColorPMSNumber [0..1]	xs:string
>	PubComponentFifthColorPercentCov [0..1]	extension xs:string

	PubComponentSixthColorPMSNumber [0..1]	xs:string
	PubComponentSixthColorPercentCov [0..1]	extension  xs:string 
	PubComponentSeventhColorPMSNumber [0..1]	xs:string
	PubComponentSeventhColorPercentCov [0..1]	extension  xs:string 
	PubComponentBleedCode [0..1]	xs:string
	PubComponentSize	
	PubComponentHorizontalOccupiedSize [0..1]	extension  xs:string 
	PubComponentVerticalOccupiedSize [0..1]	extension  xs:string 
	PubComponentColorGuideType [0..1]	xs:string
	PubComponentNumberProofs [0..1]	xs:string
	PubComponentNumberColorGuides [0..1]	xs:string
	PubComponentMaterialAttributeCode [0..1]	xs:string
	PubComponentContinousSheetFlag [0..1]	xs:string
	PubComponentContinousRelativePage [0..1]	xs:string
	PubComponentFirstContiguousPageReferenceName [0..1]	xs:string
	PubComponentABCRandomSplit [0..1]	xs:string
	PubComponentSplitNumber [0..1]	xs:string
	PubComponentPlateFile [0..1]	xs:string
	PubComponentThumbnail [0..1]	xs:string
	PubComponentOtherFile [0..1]	xs:string
	PubComponentSpread [0..1]	extension  xs:string 
	PubComponentNotes [0..*]	xs:string

2.6 PubBindEditions

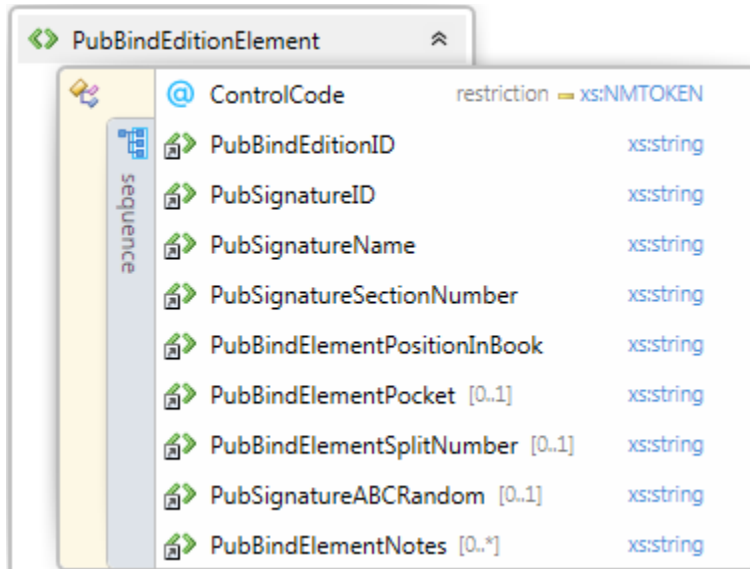
Group of elements is used to define a named Edition of a book. A single instance of the PubBindEditions is required. The PubBindEdition element references multiple elements included in the Edition.

PubBindEditions		
ControlCode	restriction	xs:NMTOKEN
PubBindEditionID		xs:string
PubBindEditionInlineGroupID [0..1]		xs:string
PubBindEditionUserName [0..1]		xs:string
PubBindEditionCreatorName		xs:string
PubBindEditionQuantity [0..1]		xs:string
PubBindEditionADPercent [0..1]	extension	xs:string
PubBindEditionCaliper [0..1]	extension	xs:string
PubBindEditionPostalPages [0..1]	extension	xs:string
PubBindEditionWeight [0..1]	extension	xs:string
PubBindEditionWeightClass1 [0..1]	extension	xs:string
PubBindEditionWeightClassPeriodical [0..1]	extension	xs:string
PubBindEditionWeightClassStdA [0..1]	extension	xs:string
PubBindEditionWeightRideAlong [0..1]	extension	xs:string
PubBindEditionWeightFirstNonConforming [0..1]	extension	xs:string
PubBindEditionWeightStandardNonConforming [0..1]	extension	xs:string
PubBindEditionDestination [1..*]		
PubBindEditionElement [1..*]		
PubBindEditionOperation [1..*]		

2.7 PubBindEditionDestination

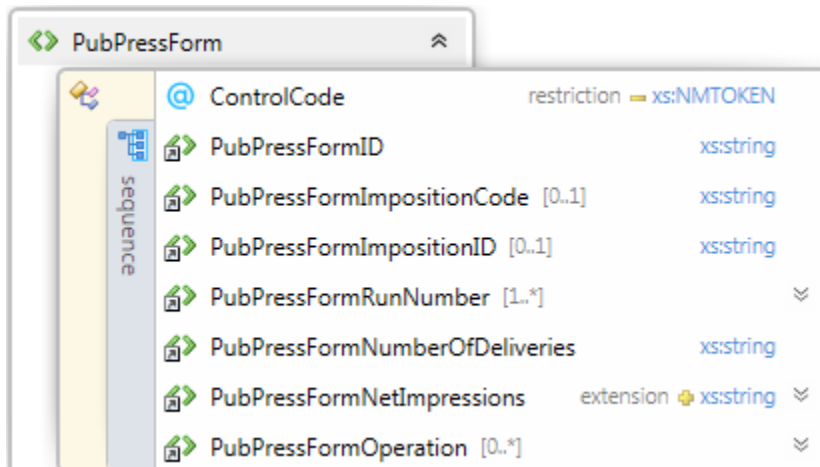
PubBindEditionDestination		
ControlCode	restriction	xs:NMTOKEN
PubBindDestinationID		xs:string
PubBindEditionID		xs:string
PubBindDestinationDistrType	extension	xs:string
PubBindDestinationName		xs:string
PubBindDestinationDistrDescription [0..*]		xs:string
PubBindDestinationDistrPool [0..1]		xs:string
PubBindDestinationQuantity [0..1]		xs:string
PubBindDestinationNotes [0..*]		xs:string

2.8 PubBindEditionElement



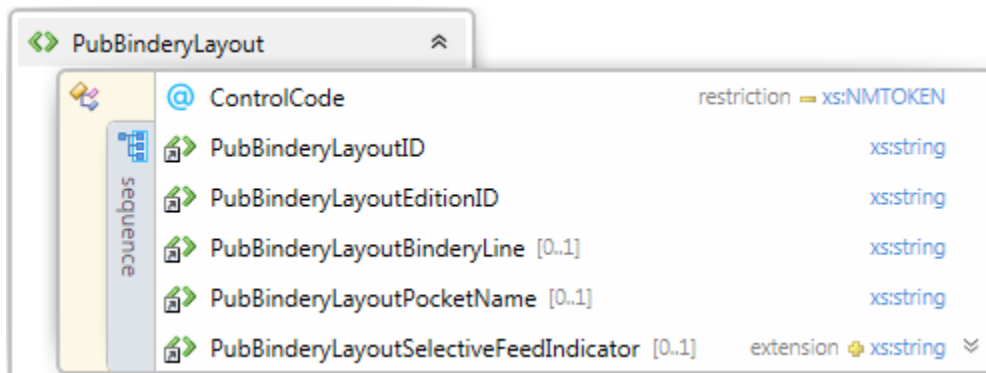
2.9 PubPressForm

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)*



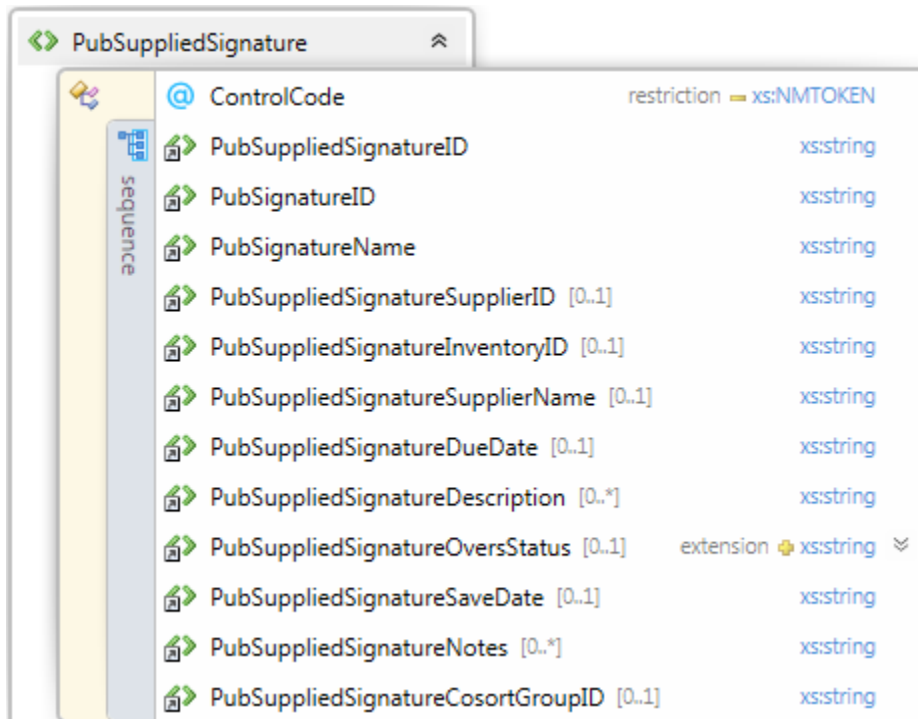
2.10 PubBinderyLayout

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.

PubGatherSection	
ControlCode	restriction = xs:NMTOKEN
PubGatherSectionID	xs:string
PubGatherNewSectionNumber	xs:string
PubGatherSectionHostNumber	xs:string
PubGatherSectionGuestNumber [1..*]	xs:string
PubGatherSectionGatherCode [0..1]	extension + xs:string
PubGatherSectionGatherVerticalDirectionCode [0..1]	extension + xs:string
PubGatherSectionVerticalDistance [0..1]	extension + xs:string
PubGatherSectionHorizontalGatherCode [0..1]	extension + xs:string
PubGatherSectionHorizontalDistance [0..1]	extension + xs:string
PubGatherSectionSpoilAllowance [0..1]	extension + xs:string
PubGatherSectionNotes [0..*]	xs:string

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)*


PubMessagingData	
ControlCode	restriction = xs:NMTOKEN
PubMessagingDataID	xs:string
PubSignatureID	xs:string
PubMessagingDataRelativePageNumber	xs:string
PubMessagingDataImagingDevice [0..1]	xs:string
PubMessagingDataFontInformation [0..1]	xs:string
PubMessagingDataMessageIdentifier [0..1]	xs:string
PubMessagingDataMessageOrientation [0..1]	xs:string
PubMessagingDataImageMethod [0..1]	xs:string
PubMessagingDataColorInformation [0..1]	xs:string

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.

 PublicationName xs:string


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.

 PublisherName xs:string


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.

 PublicationCode xs:string

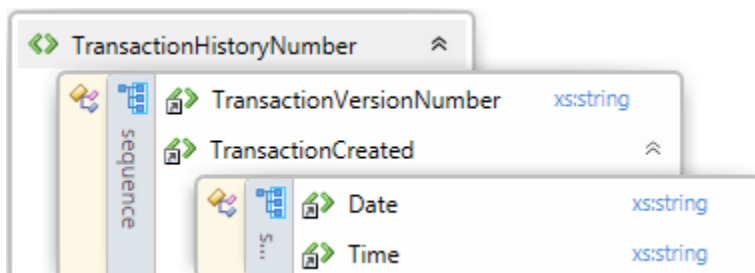
3.4 PublicationListHouseCode

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.

 PublicationListHouseCode xs:string

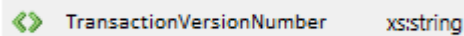
3.5 TransactionHistoryNumber

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

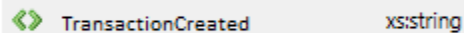
Required– TransactionVersionNumber identifies what version/revision of the specification is being communicated. It is a text element with a maximum length of 64 characters. Optional.



TransactionVersionNumber xs:string

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.



TransactionCreated xs:string

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.

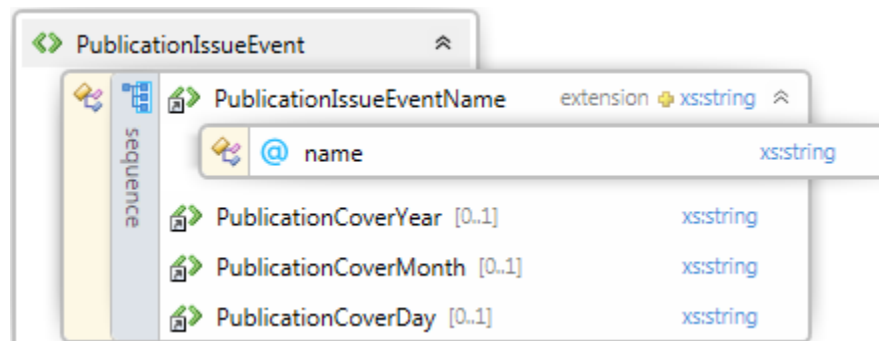
PublicationIssueEventName is used for designating none date oriented cover/event information. An example would be Fall-Winter. Maximum allowable length is 64 characters, but it is recommended that it not exceed 30 characters.

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.

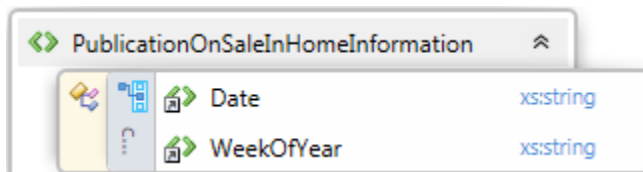
An example of the date elements concatenated would be YYYYMMDD



3.7 PublicationOnSaleHomeInformation

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

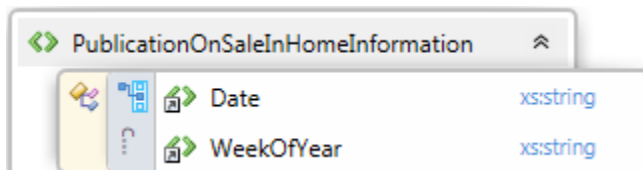
This information can be expressed either by a specific date or by the week of the year. Both elements are numeric with the date in a format of MMDDYYYY and the WeekOfYear in a range of 01 thru 52. Note, that the week of year must be communicated associated with a date to all parties.



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

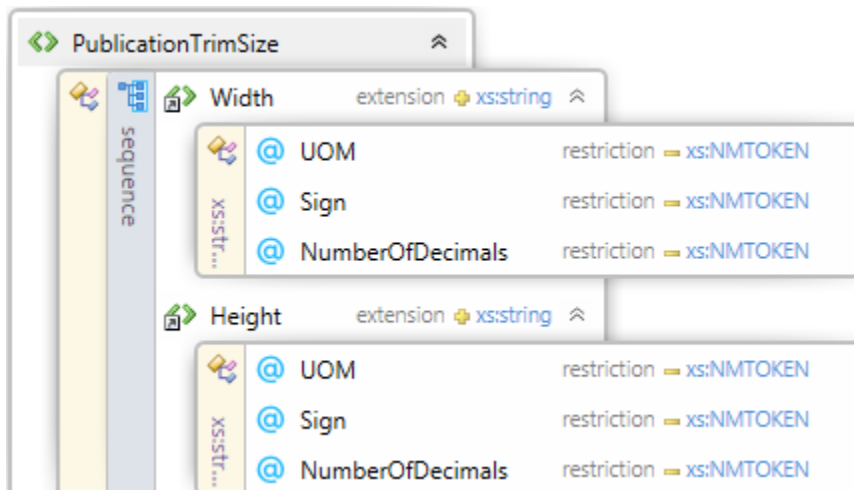


3.9 PublicationTrimSize

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.

 TransactionAuthorizerCode xs:string

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.

 TransactionAuthorizerName xs:string

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.

PubSignatureID xs:string

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.

PubSignatureName xs:string

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.*

PubSignatureSectionNumber xs:string

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.

PubSignaturePositionInBook xs:string

4.5 PubSignatureAttached

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

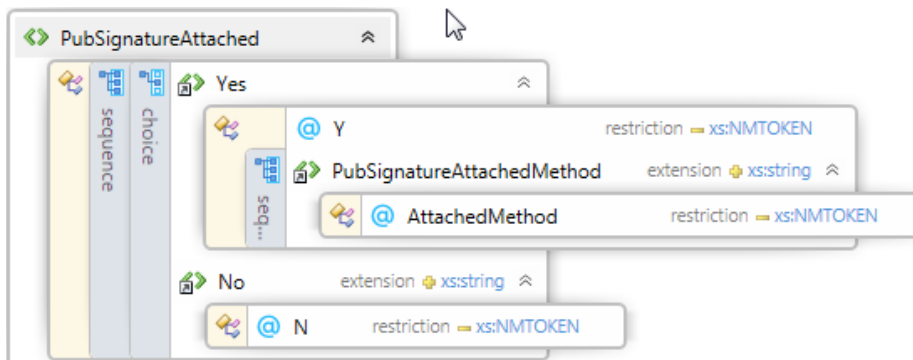
If **Yes** is chosen the enumerated value of Y will be in PubSignatureAttached element and there will be a **Required** element of PubSignatureAttachedMethod which has possible enumerated values of:

- 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



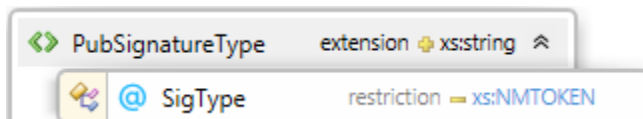
4.6 PubSignatureType

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

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

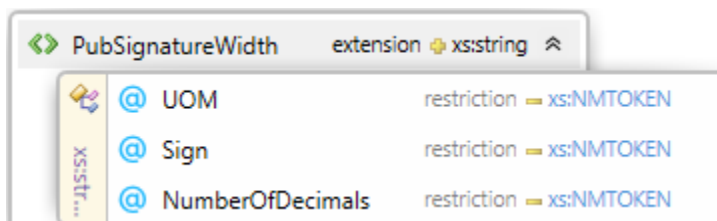
There are a great number of types commonly used, but they should be mapped back to the enumeration that best fits. For example a dot whacked piece would map to Sticker.

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



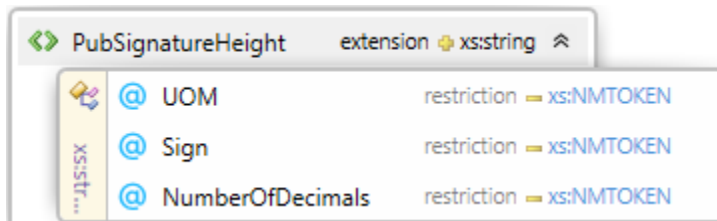
4.7 PubSignatureWidth

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



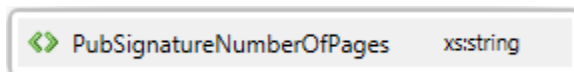
4.8 PubSignatureHeight

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



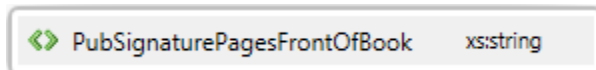
4.9 PubSignatureNumberOfPages

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.



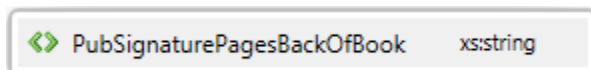
4.10 PubSignaturePagesFrontOfBook

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.



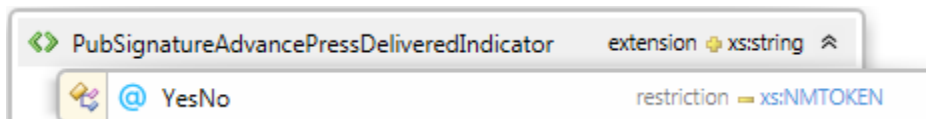
4.11 PubSignaturePagesBackOfBook

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



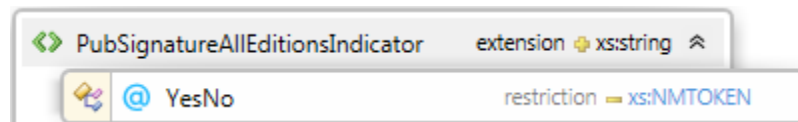
4.12 PubSignatureAdvancePressDeliveredIndicator

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.



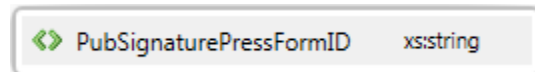
4.13 PubSignatureAllEditionsIndicator

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



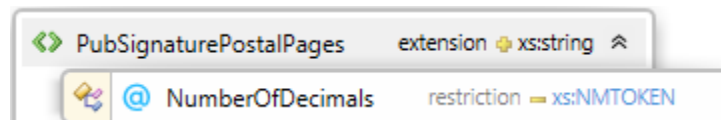
4.14 PubSignaturePressFormID

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.



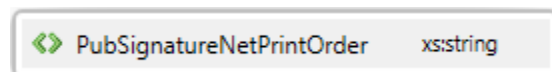
4.15 PubSignaturePostalPages

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.



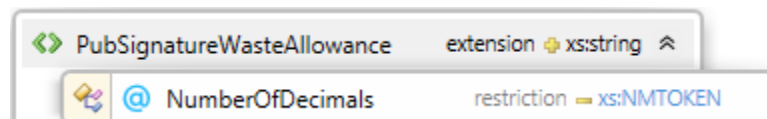
4.16 PubSignatureNetPrintOrder

Optional – PubSignatureNetPrint Order 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



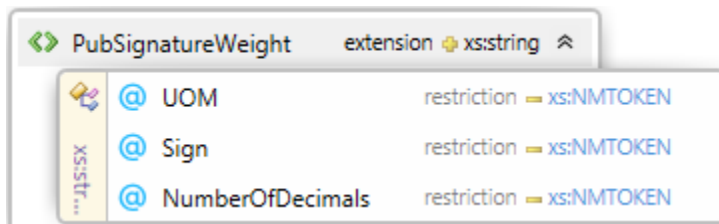
4.17 PubSignatureWasteAllowance

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.



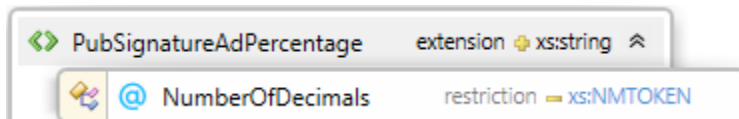
4.18 PubSignatureWeight

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.



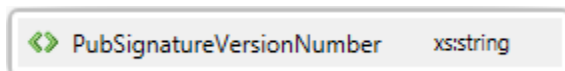
4.20 PubSignatureSource

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



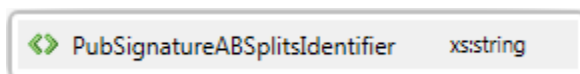
4.21 PubSignatureVersionNumber

Optional – PubSignatureVersionNumber is not currently identified



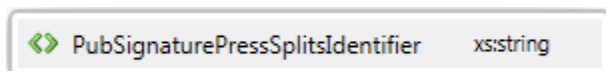
4.22 PubSignatureABSplitsIdentifier

Optional – PubSignatureABSplits Identifier 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.



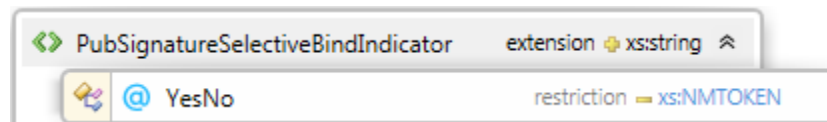
4.23 PubSignaturePressSplitsIdentifier

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



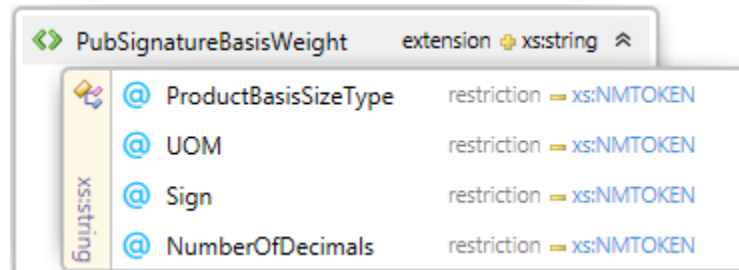
4.24 PubSignatureSelectiveBindIndicator

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



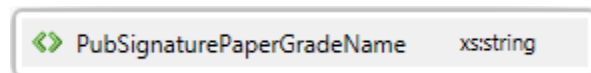
4.25 PubSignatureBasisWeight

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.



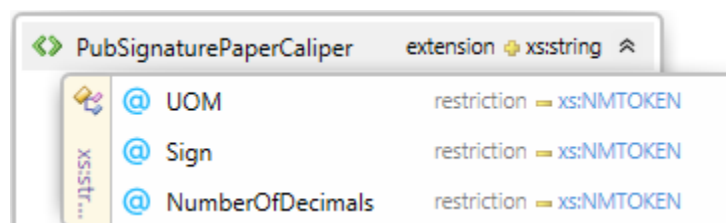
4.26 PubSignaturePaperGradeName

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



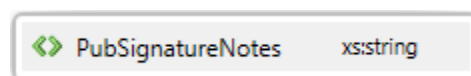
4.27 PubSignaturePaperCaliper

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

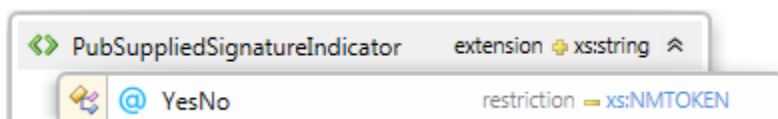
Optional – PubSignatureNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.



4.29 PubSignatureSignatureIndicator

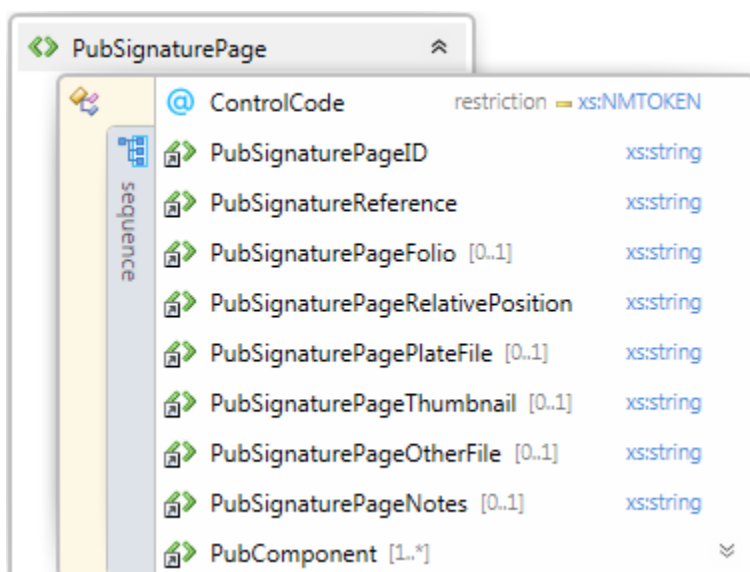
Optional – PubSuppliedSignatureIndicator is a one character element with an enumerated attribute of:

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



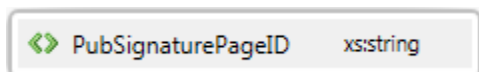
4.30 PubSignaturePage

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



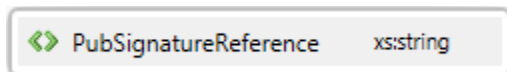
4.30.1 PubSignaturePageID

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.

↔ PubSignaturePageFolio xs:string

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.

↔ PubSignaturePageRelativePosition xs:string

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.

↔ PubSignaturePagePlateFile xs:string

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.

↔ PubSignaturePageThumbnail xs:string

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.

↔ PubSignaturePageOtherFile xs:string

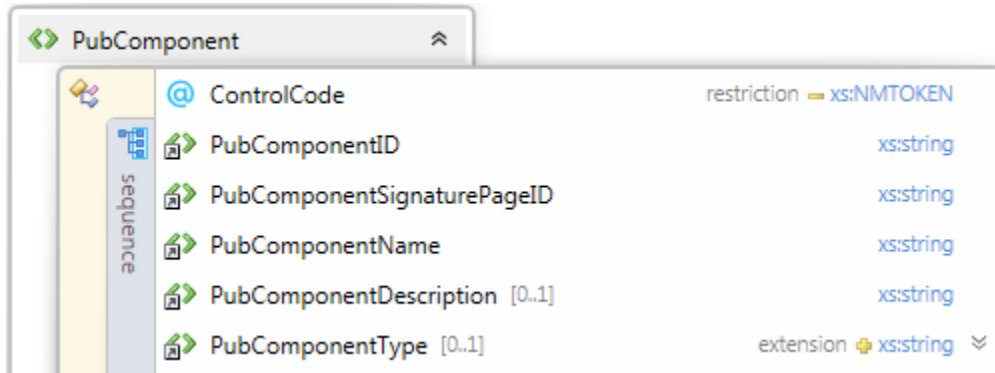
4.30.8 PubSignaturePageNotes

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.

↔ PubSignaturePageNotes xs:string

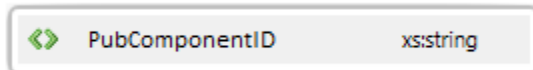
4.30.9 PubComponent

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.



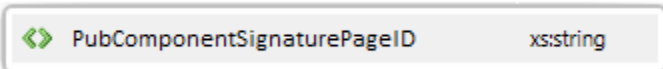
4.30.9.1 PubComponentID

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.



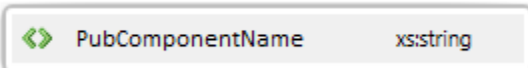
4.30.9.2 PubComponentSignaturePageID

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.



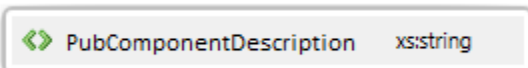
4.30.9.3 PubComponentName

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.

PubComponentType xs:string

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.

PubComponentCode xs:string

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.

PubComponentMaterialType xs:string

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.

PubComponentReferenceIdentifier xs:string

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.

PubComponentMaterialDescription xs:string


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.

PubComponentPickupIssueEventDate xs:string

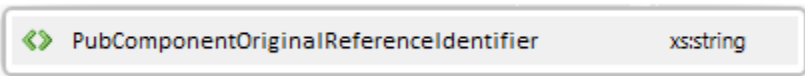
4.30.9.11 PubComponentPickupPublicationID

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.


 A rectangular box with a light gray border. On the left, there is a green double arrow icon. To its right is the text 'PubComponentPickupPublicationID'. Further to the right, separated by a space, is the text 'xs:string'.

4.30.9.12 PubComponentOriginalReferenceIdentifier

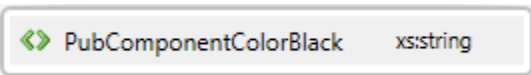
Optional – PubSignaturePageNotes is a Text element and has a maximum length of 255 characters, but this is not recommended, rather if used it is recommended that the note not be greater than 64 characters and if more characters are needed repeat the element.


 A rectangular box with a light gray border. On the left, there is a green double arrow icon. To its right is the text 'PubComponentOriginalReferenceIdentifier'. Further to the right, separated by a space, is the text 'xs:string'.

4.30.9.13 PubComponentColorBlack

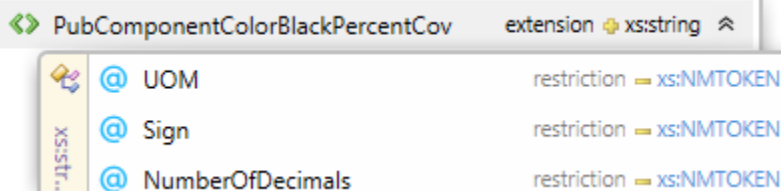
Optional – PubComponentColorBlack identifies whether the color Black is used. Highly recommended that the element be implemented.

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


 A rectangular box with a light gray border. On the left, there is a green double arrow icon. To its right is the text 'PubComponentColorBlack'. Further to the right, separated by a space, is the text 'xs:string'.

4.30.9.14 PubComponentColorBlackPercentCov

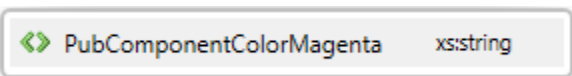
Optional – PubComponentColorBlackPercent Cov Percentage of cover for this color, recommended format is 000.00 where the decimal is implied and identified by NumberOfDecimals.


 A rectangular box with a light gray border. At the top, there is a green double arrow icon, followed by the text 'PubComponentColorBlackPercentCov', and then 'extension xs:string' with a small upward arrow. Below this, there is a table with three rows. Each row has a blue circle icon with a white '@' symbol, followed by a text label, and then the text 'restriction xs:NMTOKEN'. The labels are 'UOM', 'Sign', and 'NumberOfDecimals'.

4.30.9.15 PubComponentColorMagenta

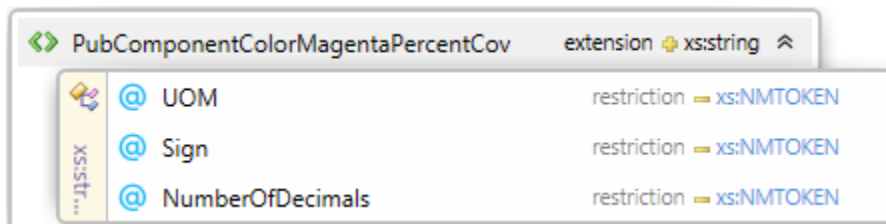
Optional – PubComponentColorBlack identifies whether the color Black is used. Highly recommended that the element be implemented.

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


 A rectangular box with a light gray border. On the left, there is a green double arrow icon. To its right is the text 'PubComponentColorMagenta'. Further to the right, separated by a space, is the text 'xs:string'.

4.30.9.16 PubComponentColorMagentaPercentCov

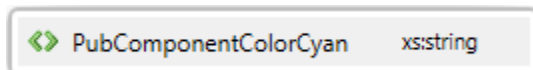
Optional – PubComponentColorBlackPercentCovPercentage of cover for this color, recommended format is 000.00 where the decimal is implied and identified by NumberOfDecimals.



4.30.9.17 PubComponentColorCyan

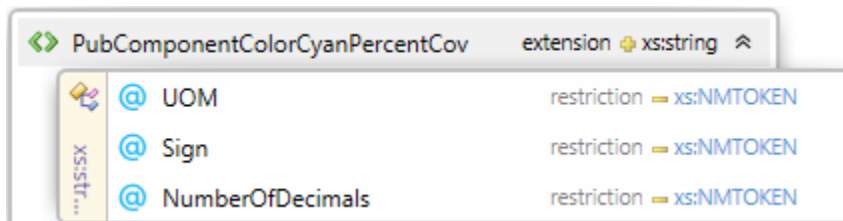
Optional – PubComponentColorBlack identifies whether the color Black is used. Highly recommended that the element be implemented.

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



4.30.9.18 PubComponentColorCyanPercentCov

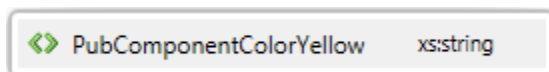
Optional – PubComponentColorBlackPercentCovPercentage of cover for this color, recommended format is 000.00 where the decimal is implied and identified by NumberOfDecimals.



4.30.9.19 PubComponentColorYellow

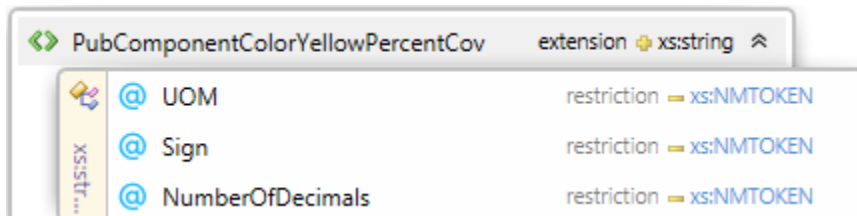
Optional – PubComponentColorBlack identifies whether the color Black is used. Highly recommended that the element be implemented.

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



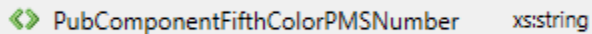
4.30.9.20 PubComponentColorYellowPercentCov

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

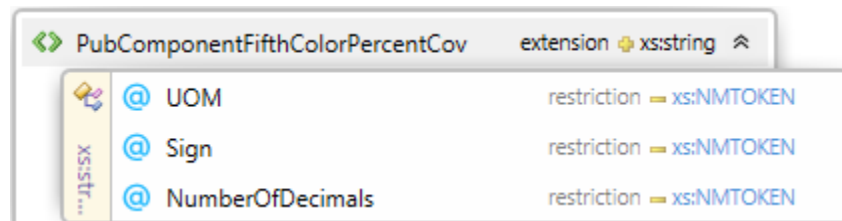
Optional – PubComponentFifthColorPMS Number is a text element with a maximum length of 24 characters. This is from the Pantone Matching System which is a reference for providing an accurate method for the communication of matching and control of color. Please refer to the PMS codes. This can also be 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 – PubComponentFifthColorPercentCovPercentage of cover for this color, recommended format is 000.00 where the decimal is implied and identified by NumberOfDecimals.

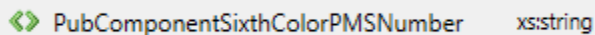


PubComponentFifthColorPercentCov extension xs:string

@ UOM	restriction xs:NMTOKEN
@ Sign	restriction xs:NMTOKEN
@ NumberOfDecimals	restriction xs:NMTOKEN

4.30.9.23 PubComponentSixthColorPMS

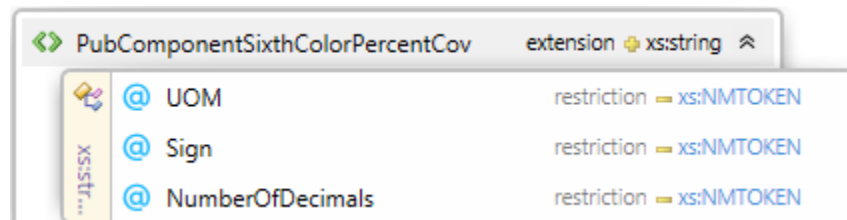
Optional – PubComponentSixthColorPMSNumber is a text element with a maximum length of 24 characters. This is from the Pantone Matching System which is a reference for providing an accurate method for the communication of matching and control of color. Please refer to the PMS codes. This can also be used 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 – PubComponentSixthColorPercentCovPercentage of cover for this color, recommended format is 000.00 where the decimal is implied and identified by NumberOfDecimals.

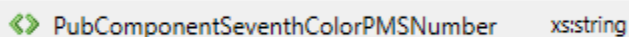


PubComponentSixthColorPercentCov extension xs:string

@ UOM	restriction xs:NMTOKEN
@ Sign	restriction xs:NMTOKEN
@ NumberOfDecimals	restriction xs:NMTOKEN

4.30.9.25 PubComponentSeventhColorPMS

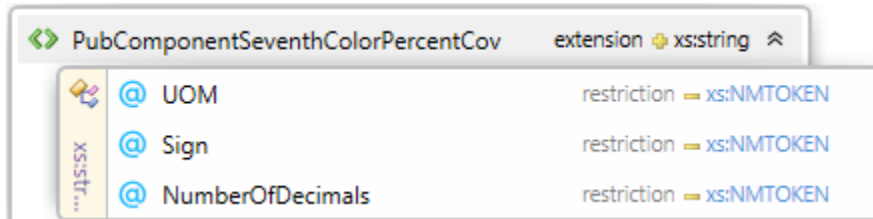
Optional – PubComponentSeventhColorPMSNumber is a text element with a maximum length of 24 characters. This is from the Pantone Matching System which is a reference for providing an accurate method for the communication of matching and control of color. Please refer to the PMS codes. This can also be 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.

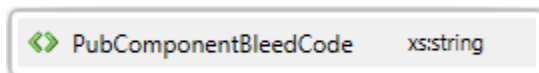


4.30.9.27 PubComponentBleedCode

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

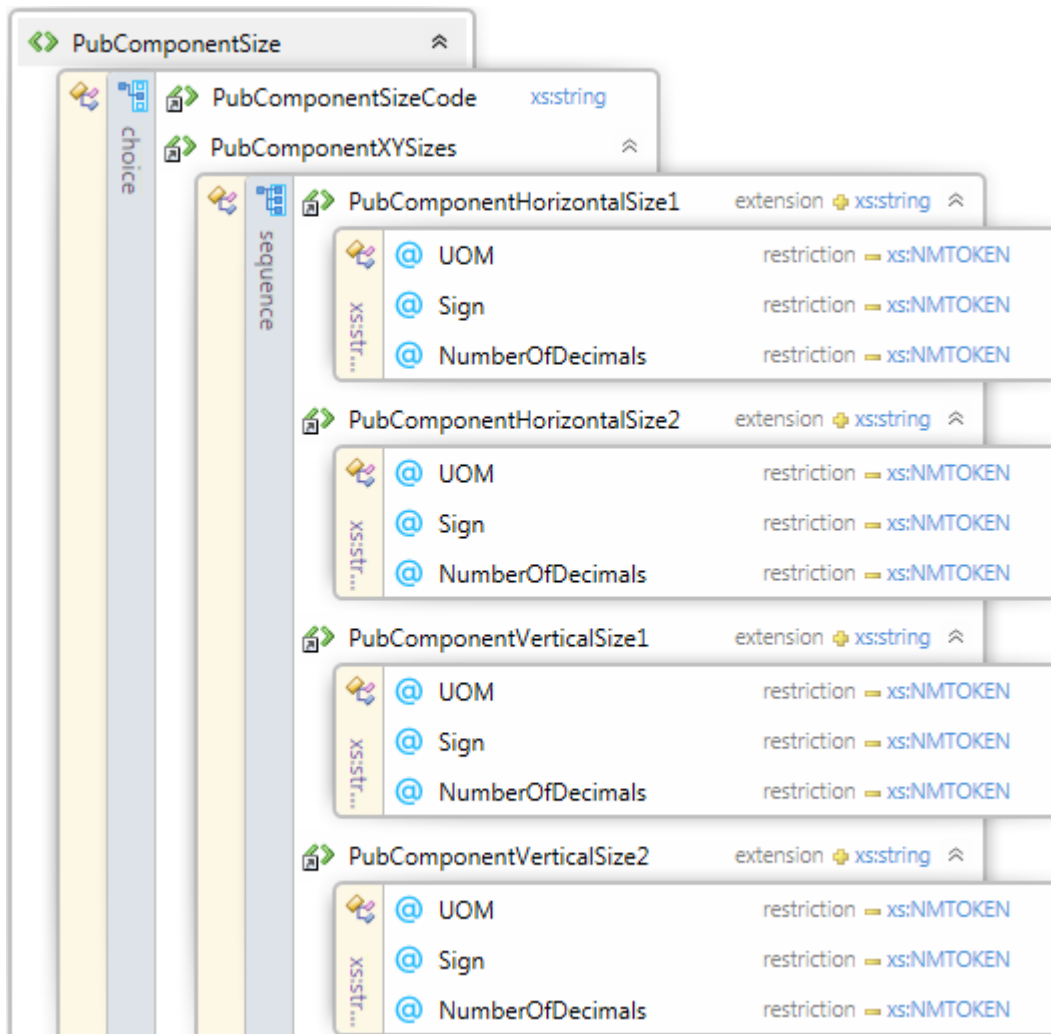
It is recommended that text be used instead of codes so that there is no ambiguity on what is desired by the publisher.



4.30.9.28 PubComponentSize

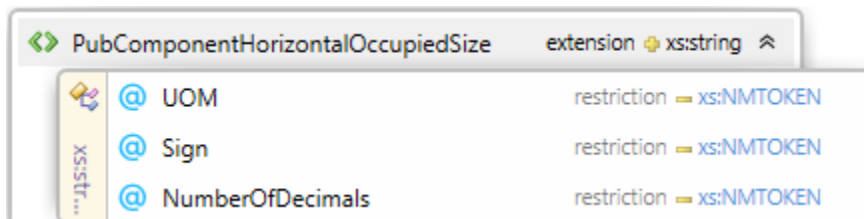
Required – PubComponentSize provides for two methods of specifying size.

- 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.



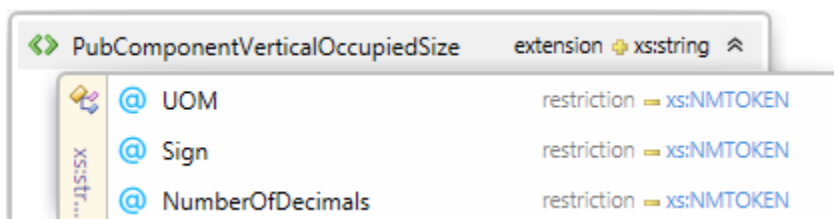
4.30.9.29 PubComponentHorizontalOccupiedSize

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.

 PubComponentColorGuideType xs:string


4.30.9.32 PubComponentNumberProofs

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

 PubComponentNumberProofs xs:string


4.30.9.33 PubComponentNumberColorGuides

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

 PubComponentNumberColorGuides 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).

 PubComponentMaterialAttributeCode 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.

 PubComponentContinuousSheetFlag xs:string


4.30.9.36 PubComponentContinuousRelativePage

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

 PubComponentContinuousRelativePage xs:string


4.30.9.37 PubComponentFirstContiguousPageReferenceName

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

 PubComponentFirstContiguousPageReferenceName 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.

 PubComponentABCRandomSplit xs:string


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.

 PubComponentSplitNumber xs:string


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.

 PubComponentPlateFile xs:string


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.

 PubComponentThumbnail xs:string

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.

 PubComponentOtherFile xs:string

4.30.9.43 PubComponentSpread

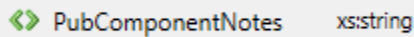
Optional – PubComponentSpread is a text element that is **Required** if the component is part of a spread. The enumerations available are:

- Yes
- No

 PubComponentSpread extension xs:string
 YesNo restriction xs:NMTOKEN

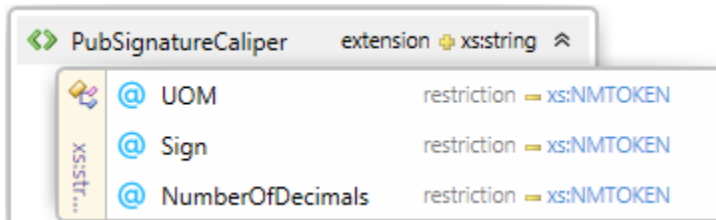
4.30.9.44 PubComponentNotes

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.


 A small XML Schema diagram showing the element PubComponentNotes with a green double arrow icon and the type xs:string.

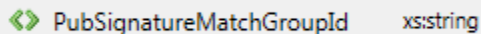
4.31 PubSignatureCaliper

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.



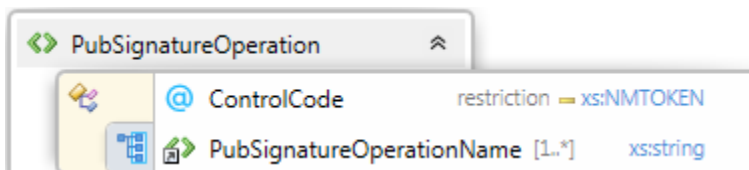
4.32 PubSignatureMatchGroupId

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


 A small XML Schema diagram showing the element PubSignatureMatchGroupId with a green double arrow icon and the type xs:string.

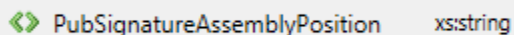
4.33 PubSignatureOperation

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.


 A small XML Schema diagram showing the element PubSignatureAssemblyPosition with a green double arrow icon and the type xs:string.

5 PUBBINDEDITIONS

5.1 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.

PubBindEditionID xs:string

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 an 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.

PubBindEditionInlineGroupID xs:string

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.

PubBindEditionUserName xs:string

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.

PubBindEditionCreatorName xs:string

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.

PubBindEditionQuantity xs:string

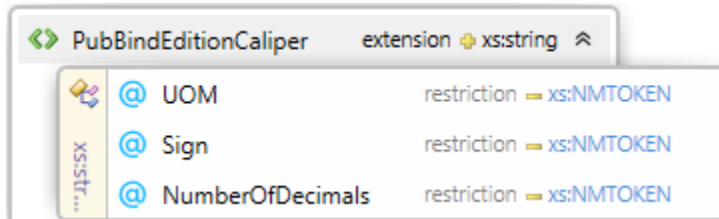
5.6 PubBindEditionAdPercent

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.

PubBindEditionADPercent extension xs:string
NumberOfDecimals restriction xs:NMTOKEN

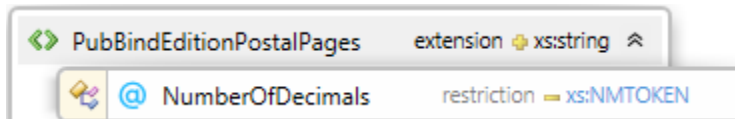
5.7 PubBindEditionCaliper

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



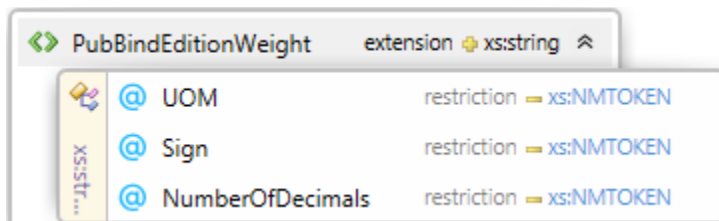
5.8 PubBindEditionPostalPages

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.



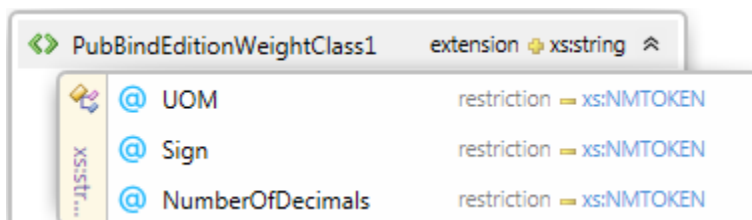
5.9 PubBindEditionWeight

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.



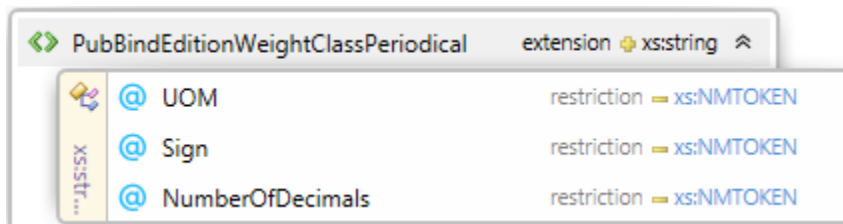
5.10 PubBindEditionWeightClass1

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.



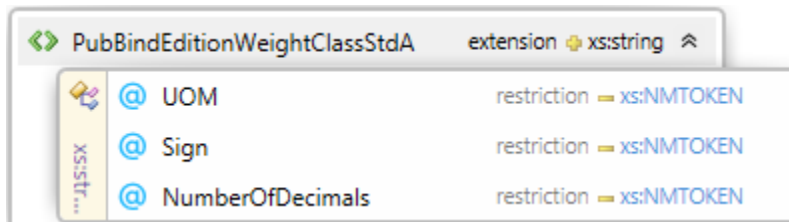
5.11 PubBindEditionWeightClassPeriodical

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.



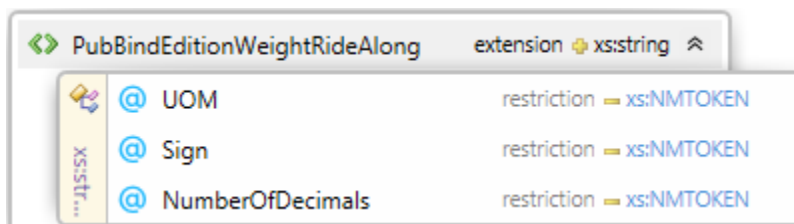
5.12 PubBindEditionWeightClassStdA

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`.



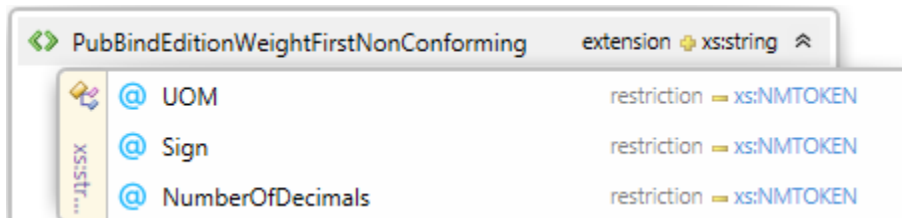
5.13 PubBindEditionWeightRideAlong

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`.



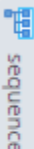


5.15 PubBindEditionWeightStandardNonConforming

Optional – `PubBindEditionWeightStandardNonConforming` 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`.

PubBindEditionWeightStandardNonConforming		extension  xs:string
	UOM	restriction  xs:NMTOKEN
	Sign	restriction  xs:NMTOKEN
	NumberOfDecimals	restriction  xs:NMTOKEN

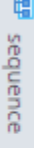

5.16 PubBindEditionDestination

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

PubBindEditionDestination		
	ControlCode	restriction  xs:NMTOKEN
	PubBindDestinationID	xs:string
	PubBindEditionID	xs:string
	PubBindDestinationDistrType	extension  xs:string
	PubBindDestinationName	xs:string
	PubBindDestinationDstrDescription [0..*]	xs:string
	PubBindDestinationDistrPool [0..1]	xs:string
	PubBindDestinationQuantity [0..1]	xs:string
	PubBindDestinationNotes [0..*]	xs:string

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. .

PubBindEditionElement		
	ControlCode	restriction  xs:NMTOKEN
	PubBindEditionID	xs:string
	PubSignatureID	xs:string
	PubSignatureName	xs:string
	PubSignatureSectionNumber	xs:string
	PubBindElementPositionInBook	xs:string
	PubBindElementPocket [0..1]	xs:string
	PubBindElementSplitNumber [0..1]	xs:string
	PubSignatureABCRandom [0..1]	xs:string
	PubBindElementNotes [0..*]	xs:string

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.

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.

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

PubBindDestinationDistrType extension xs:string
DistrType restriction xs:NMTOKEN

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.

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.

↔ PubBindDestinationDstrDescription 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.

↔ PubBindDestinationDistrPool 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.

↔ PubBindDestinationQuantity 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.

↔ PubBindDestinationNotes 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.

↔ PubBindEditionID 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.

PubSignatureID xs:string

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.

PubSignatureName xs:string

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.*

PubSignatureSectionNumber xs:string

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.

PubBindElementPositionInBook xs:string

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.

PubBindElementPocket xs:string

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.

PubBindElementSplitNumber xs:string

5.19.8 PubSignatureABCRandom

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

PubSignatureABCRandom xs:string

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.

PubBindElementNotes xs:string

5.19.10 PubBindEditionElementMatchGroupId

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

PubBindEditionElementMatchGroupId xs:string

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.

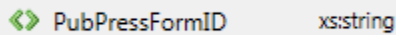


Diagram showing PubPressFormID as an xs:string element.

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.

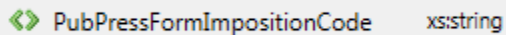


Diagram showing PubPressFormImpositionCode as an xs:string element.

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.

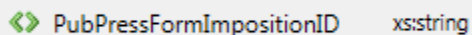


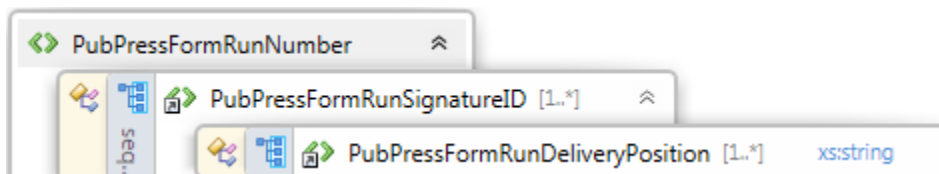
Diagram showing PubPressFormImpositionID as an xs:string element.

6.4 PubPressFormRunNumber

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

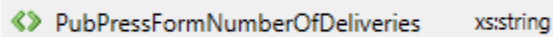
PubPressFormRunSignatureID – a single instance is **Required**, but is repeatable if needed. This key is the reference to PubSignature.

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



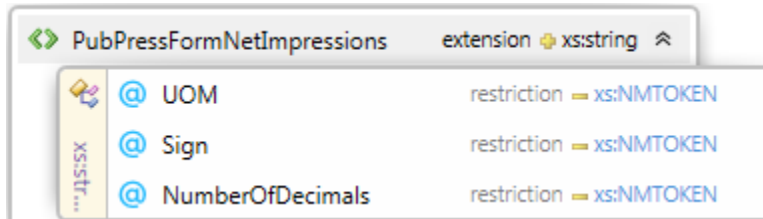
6.5 PubPressFormNumberOfDeliveries

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


 A snippet of an XML Schema definition for the element `PubPressFormNumberOfDeliveries`. It is a simple content element of type `xs:string`.

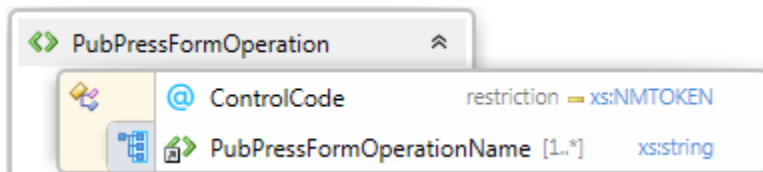
6.6 PubPressFormNetImpressions

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 – PubSuppliedSignatureID 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.

PubSuppliedSignatureID 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.

 PubSuppliedSignatureSupplierName xs:string


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.

 PubSuppliedSignatureDueDate xs:string

8.8 PubSuppliedSignatureDescription



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

 PubSuppliedSignatureDescription xs:string

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

 PubSuppliedSignatureOversStatus extension xs:string
 SaveDispose restriction xs:NMTOKEN


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.

 PubSuppliedSignatureSaveDate xs:string

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.

 PubSuppliedSignatureNotes xs:string

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..

 PubSuppliedSignatureCosortsGroupID xs:string

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.

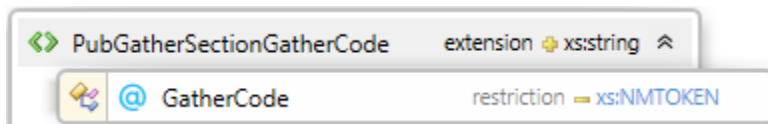
PubGatherSectionGuestNumber xs:string

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

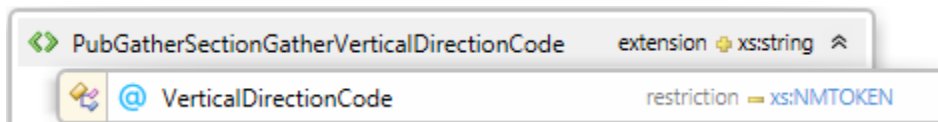
- 4 = Hanger Back
- 5 = Pre-gather Bind
- 6 = Pre-gather Stitch
- 7 = Magnastrip



9.6 PubGatherSectionGatherVerticalDirectionCode

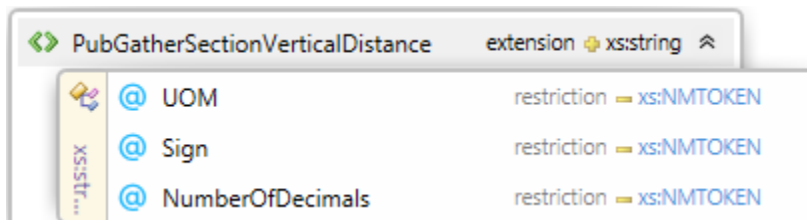
Optional – PubGatherSectionGatherVerticalDirectionCode is a text element that is used to denote the vertical direction. The valid enumerations are:

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



9.7 PubGatherSectionVerticalDistance

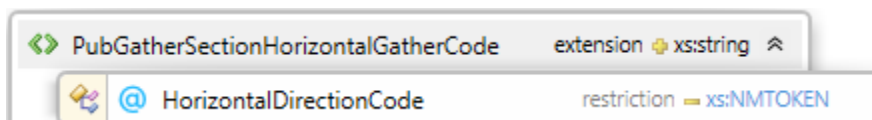
Optional – PubGatherSectionVertical Distance **has not been defined**, but was included for some compatibility with the original PROSE.



9.8 PubGatherSectionHorizontalGatherCode

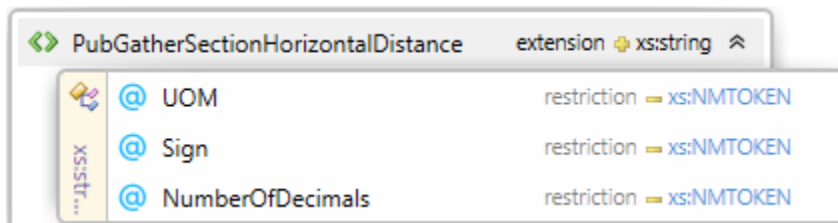
Optional – PubGatherSectionHorizontal GatherCode is a text element that is to denote the pre-gather horizontal direction. The valid enumerations are:

- H = Head
- S = Spine
- L = Float
- O = Other



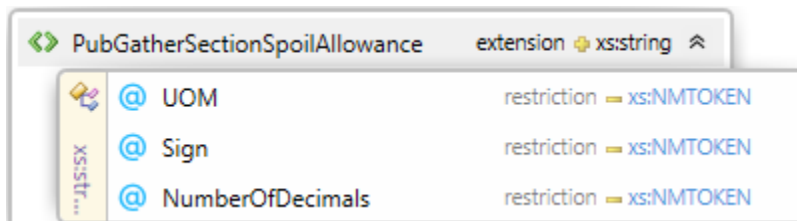
9.9 PubGatherSectionHorizontalDistance

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



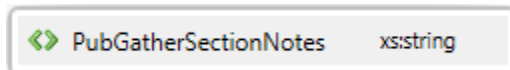
9.10 PubGatherSectionSpoilAllowance

Optional – PubGatherSectionSpoilAllowance is a numeric element used to denote the spoilage allowance associated with the pre-gather. The recommended format is 000.0000 where nthe 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.

PubMessagingDataID xs:string

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.

PubSignatureID xs:string

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).

PubMessagingDataRelativePageNumber xs:string

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.

PubMessagingDataImagingDevice xs:string

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.

PubMessagingDataFontInformation xs:string

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.

PubMessagingDataMessageIdentifier xs:string

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.

PubMessagingDataMessageOrientation xs:string

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.

PubMessagingDataImageMethod xs:string

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.

PubMessagingDataColorInformation xs:string

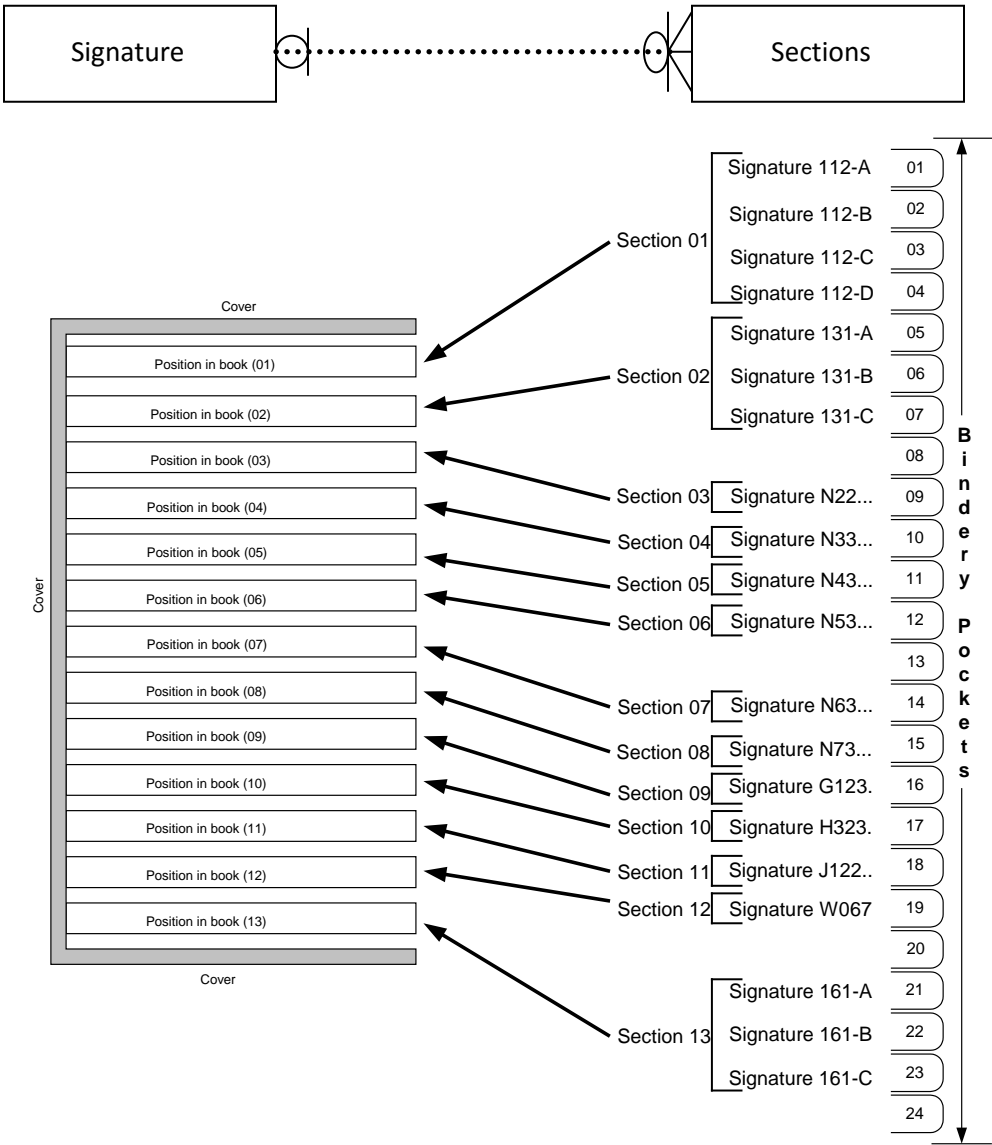
Appendix A SECTIONS

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.



Appendix B XML PROSE V30R015 CHANGES/MODIFICATIONS

XML PROSE_V30R001 is an update from XML PROSE_V20R011.

PubSignature	<p>Added the following elements:</p> <ul style="list-style-type: none"> • PubSignatureCaliper, which houses the thickness of the signature • PubSignatureMatchGroupID which identifies a group of two or more signatures that match when binding • PubSignatureOperation, which is an optional list of operations performed on the signature, such as knockouts or UV coating. TPA. • PubSignatureAssemblyPosition, which identifies the position of the signature as it pertains to the assembly of the finished product. TPA.
PubSignatureType	<p>Additional values were added:</p> <ul style="list-style-type: none"> • Sticker
PubSignatureAttachedMethod	<p>Additional values were added as AttachedMethod:</p> <ul style="list-style-type: none"> • Tipped • DotWhack • BellyBand
PubPressForm	<p>Added PubPressFormOperation element which is an optional list of operations performed on a press form, such as Aqueous Coating or Die Cutting. TPA.</p>
PubSuppliedSignature	<p>An optional element named PubSuppliedSignatureCosortGroupID was added.</p>

Appendix C ATTACHED METHOD/INLINE EDITIONS EXAMPLE

PubSignature Attached	Signature Or Component	PubBind Edition AAAA	PubBind Edition AAAB	PubBind Edition AAAC	PubBind Edition AAAD	PubBind Edition AAAE	PubBind Edition AAAF
Y	Polywrap	X	X	X	X	X	
Y	Attached PKG A	X					
Y	Attached PKG B		X			X	
Y	Attached PKG C			X	X		
Y	Attached CD	X	X	X	X	X	
N	Cover	X	X	X	X	X	X
N	Sig 1	Run-1	Run-1	Run-1	Run-1	Run-2	Run-2
N	Sig 2	X	X	X	X	X	X
N	Bind In		X		X	X	
N	Sig 3	X	X	X	X	X	X
N	Blow In	X		X		X	
N	Sig 4	X	X	X	X	X	X
-----	-----	001	002	001	002	003	004

Appendix D XML PROSE XSD – STANDARD TYPES

