

1 **1. Mapping Microsoft Print Schema Elements to PWG Print Job**  
 2 **Ticket Elements**

3 The Microsoft Print Schema uses an XML element convention much like the PWG Print  
 4 Job Ticket (PJT). One of the differences between the two print ticket formats is that  
 5 Microsoft has added a third layer to their specification tree (Job, Document, Page) and  
 6 rules for merging print ticket elements from the three levels together when processing a  
 7 print request. The page level declarations present some interesting challenges when  
 8 building the mapping outlined in this specification.

9 **Table 1 - Microsoft Print Schema Element to PWG Print Job Ticket Element Mapping**

Microsoft Print Schema Element Name	PWG Print Job Ticket Element Name
	CompressionSupplied
	Copies
DocumentBannerSheet None Standard Custom BannerSheetSource	
DocumentSeparatorSheet None StartSheet EndSheet BothSheets	
DocumentPrimaryCoverBack NoCover BlankCover PrintFront PrintBack PrintBoth	CoverBack CoverType Media MediaType MediaCol
DocumentPrimaryCoverFront NoCover BlankCover PrintFront PrintBack PrintBoth	CoverFront CoverType Media MediaType MediaCol
	<i>CoverType</i>
	DocumentCharsetSupplied
	<i>DocumentCopies</i>
	DocumentDigitalSignatureSupplied
DocumentDuplex OneSided TwoSidedLongEdge	

<b>Microsoft Print Schema Element Name</b>	<b>PWG Print Job Ticket Element Name</b>
TwoSidedShortEdge DuplexMode Automatic Manual	
	<i>DocumentFormat</i>
	DocumentFormatDetailsSupplied DocumentSourceApplicationName DocumentSourceApplicationVersion DocumentSourceOsName DocumentSourceOsVersion DocumentFormat DocumentFormatDeviceId DocumentFormatVersion DocumentNaturalLanguage
	<i>DocumentFormatDeviceId</i>
	DocumentFormatSupplied
	<i>DocumentFormatVersion</i>
	DocumentFormatVersionSupplied
DocumentInputBin AutoSelect Manual Cassette Tractor AutoSheetFeeder	
	DocumentMessageSupplied
	DocumentNameSupplied
	<i>DocumentNaturalLanguage</i>
	<i>DocumentNumbers</i>
<i>DocumentOutputBin</i>	
	<i>DocumentSourceApplicationName</i>
	<i>DocumentSourceApplicationVersion</i>
	<i>DocumentSourceOsName</i>
	<i>DocumentSourceOsVersion</i>
	FeedOrientation
	Finishings
DocumentHolePunch None LeftEdge RightEdge TopEdge BottomEdge	FinishingsCol FinishingTemplate Other

Microsoft Print Schema Element Name	PWG Print Job Ticket Element Name
DocumentStaple StapleTopLeft StapleTopRight StapleBottomLeft StapleBottomRight StapleDualLeft StapleDualRight StapleDualTop SaddleStitch Angle SheetCapacity	FinishingsCol FinishingTemplate Stitching StitchingReferenceEdge StitchingOffset StitchingLocations
	FinishingTemplate
	FontNameRequested
	FontSizeRequested
PageForceFrontSide ForceFrontSize? None	ForceFrontSide
	ImpositionTemplate
	Impressions
	<i>InsertAfterPageNumber</i>
	<i>InsertCount</i>
	InsertSheet ISheet InsertAfterPage InsertCount Media MediaType MediaCol
	JobAccountingID
	<i>JobAccountingOutputBin</i>
JobAccountingSheet None Standard	JobAccountingSheets JobAccountingSheetsType Media MediaType MediaCol JobAccountingOutputBin
	<i>JobAccountingSheetsType</i>
	JobAccountingUserID
JobCollateAllDocuments	
	JobCopies

Microsoft Print Schema Element Name	PWG Print Job Ticket Element Name
	JobCoverBack CoverType Media MediaType MediaCol
	JobCoverFront CoverType Media MediaType MediaCol
	JobDelayOutputUntil
	JobDelayOutputUntilTime
JobDuplexAllDocumentsContiguously OneSided TwoSidedLongEdge TwoSidedShortEdge DuplexMode Automatic Manual	
JobErrorSheet None Standard Custom ErrorSheetSource	JobErrorSheet JobErrorSheetType JobErrorSheetWhen Media MediaType MediaCol
	JobErrorSheetType
ErrorSheetWhen Always OnError	JobErrorSheetWhen
	JobFinishings
JobHolePunch None LeftEdge RightEdge TopEdge BottomEdge	JobFinishingsCol FinishingTemplate Other
RollCutAtEndOfJob CutSheetAtImageEdge CutSheetAtStandardMediaSize None	JobFinishingsCol FinishingTemplate Other

Microsoft Print Schema Element Name	PWG Print Job Ticket Element Name
JobStapleAllDocuments StapleTopLeft StapleTopRight StapleBottomLeft StapleBottomRight StapleDualLeft StapleDualRight StapleDualTop StapleDualBottom SaddleStitch	JobFinishingsCol FinishingTemplate Stitching StitchingReferenceEdge StitchingOffset StitchingLocations
	JobHoldUntil
	JobHoldUntilTime
JobInputBin AutoSelect Manual Cassette Tractor AutoSheetFeeder	
	JobMandatoryElements
	JobMessageFromOperator
	JobMessageToOperator
	JobMoreInfo
	JobName
JobOutputOptimization ArchiveFormat OptimizeForPortability OptimizeForQuality OptimizeForSpeed None	
	JobOriginatingUserName
	JobOriginatingUserUri
	JobPassword
	JobPasswordEncryption
	JobPhoneNumber
	JobPriority
	JobRecipientName
	JobSaveDisposition SaveDisposition SaveInfo SaveDocumentFormat SaveLocation SaveName
	JobSheetMessage
	JobSheets

<b>Microsoft Print Schema Element Name</b>	<b>PWG Print Job Ticket Element Name</b>
JobPrimaryBannerSheet None Standard Custom BannerSheetSource	JobSheetsCol JobSheets Media MediaType MediaCol
	KOctets
	Media
	MediaCol MediaBackCoating MediaColor MediaFrontCoating MediaGrain MediaHoleCount MediaInfo MediaKey MediaOrderCount MediaPreprinted MediaRecycled MediaSize XDimension YDimension MediaSizeName MediaThickness MediaTooth MediaType MediaWeightMetric MediaBottomMargin MediaLeftMargin MediaRightMargin MediaTopMargin MediaSource
	<i>MediaBackCoating</i>
<i>PageMediaColor</i>	<i>MediaColor</i>
	<i>MediaFrontCoating</i>
	<i>MediaGrain</i>
	<i>MediaHoleCount</i>
	<i>MediaInfo</i>
	MediaInputTrayCheck
	<i>MediaKey</i>
	<i>MediaOrderCount</i>
	<i>MediaPreprinted</i>
	<i>MediaRecycled</i>
	MediaSheets
<i>PageMediaSize</i>	<i>MediaSize</i>

<b>Microsoft Print Schema Element Name</b>	<b>PWG Print Job Ticket Element Name</b>
	<i>MediaSizeName</i>
	<i>MediaThickness</i>
	<i>MediaTooth</i>
PageMediaType	MediaType
	<i>MediaWeightMetric</i>
	MultipleDocumentsHandling
	NumberUp
	OrientationRequested
JobOutputBin	OutputBin
	OutputDevice
	Overrides <ul style="list-style-type: none"> <li>Override                             <ul style="list-style-type: none"> <li>Pages                                     <ul style="list-style-type: none"> <li>PageRange   <ul style="list-style-type: none"> <li>Lowerbound</li> <li>Upperbound</li> </ul> </li> <li>DocumentNumbers   <ul style="list-style-type: none"> <li>NumberRange   <ul style="list-style-type: none"> <li>Lowerbound</li> <li>Upperbound</li> </ul> </li> <li>DocumentCopies   <ul style="list-style-type: none"> <li>PCopiesRange   <ul style="list-style-type: none"> <li>Lowerbound</li> <li>Upperbound</li> </ul> </li> </ul> </li> </ul> </li> </ul> </li> <li>OverridingElements</li> </ul> </li></ul>
	PageDelivery
	PageOrderReceived
	PageRanges <ul style="list-style-type: none"> <li>PageRange                             <ul style="list-style-type: none"> <li>Lowerbound</li> <li>Upperbound</li> </ul> </li> </ul>
	<i>Pages</i>
	PagesPerSubset <ul style="list-style-type: none"> <li>Pages</li> </ul>
	PdInitFiles <ul style="list-style-type: none"> <li>PdInitFile                             <ul style="list-style-type: none"> <li>PdInitFileLocation</li> <li>PdInitFileName</li> <li>PdInitFileEntry</li> </ul> </li> </ul>
	<i>PdInitFileEntry</i>
	<i>PdInitFileName</i>
	<i>PdInitFileEntry</i>
	PresentationDirectionNumberUp
PageOutputColor	PrintColorMode

Microsoft Print Schema Element Name	PWG Print Job Ticket Element Name
	PrintContentOptimize
	PrintRenderingIntent
	ProofPrint Copies Media MediaCol
PageOutputQuality	Quality
PageResolution	Resolution
	<i>SaveDisposition</i>
	<i>SaveDocumentFormat</i>
	<i>SaveInfo</i>
	<i>SaveLocation</i>
	<i>SaveName</i>
	SeparatorSheets SeparatorSheetsType Media MediaType MediaCol
	<i>SeparatorSheetsType</i>
DocumentCollate	SheetCollate
	Sides
	<i>StitchingLocations</i>
	<i>StitchingOffset</i>
	<i>StitchingReferenceEdge</i>
	TemplateCreatorUserName
	TemplateId
	TemplateInfo
	TemplateName
	TemplateType
	<i>XDimension</i>
	XImagePosition
	XImageShift
	XSide1ImageShift
	XSide2ImageShift
	<i>YDimension</i>
	YImagePosition
	YImageShift
	YSide1ImageShift
	YSide2ImageShift

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12 **2. References**

13 **2.1 Normative References**

14 [MSPS] Microsoft Print Schema Reference Guide Version 1.0 rev A,  
15 November 2011  
16 <http://go.microsoft.com/fwlink/?LinkId=234563>