1. Mapping JDF Attributes to PWG Print Job Ticket Elements

JDF attributes are encoded as XML attributes in XML schema instances – instead of as XML elements like the PWG Print Job Ticket (PJT) – this complicates mapping implementations. JDF attributes are defined in the CIP4 JDF Specification Release 1.4a [CIP4JDF] and profiled for various printing environments in a series of CIP4 ICS (Interoperability Conformance Specification) documents, in particular the CIP4 Integrated Digital Printing (IDP) ICS v1.3 [CIP4IDP].

Table - JDF Attributes to PWG Print Job Ticket Elements

| **JDF Attribute Name** | **PWG Print Job Ticket Element Name** |
| --- | --- |
| DocumentCompression | CompressionSupplied |
| SetCopies | Copies |
| Covers (Media, Sides, etc.) CoverType=”Back” Media MediaType Media | CoverBack CoverType Media MediaType MediaCol |
| Covers (Media, Sides, etc.) CoverType=”Front” Media MediaType Media | CoverFront CoverType Media MediaType MediaCol |
| *CoverType* | *CoverType* |
| <none> | DocumentCharsetSupplied |
| *DocCopies* | *DocumentCopies* |
| <none> | DocumentDigitalSignatureSupplied |
| *MimeType* | *DocumentFormat* |
| FileSpec <none> <none> <none> <none> MimeType DeviceID MimeTypeVersion DocumentNaturalLang | DocumentFormatDetailsSupplied DocumentSourceApplicationName DocumentSourceApplicationVersion DocumentSourceOsName DocumentSourceOsVersion DocumentFormat DocumentFormatDeviceId DocumentFormatVersion DocumentNaturalLanguage |
| *DeviceID* | *DocumentFormatDeviceId* |
| MimeType | DocumentFormatSupplied |
| *MimeTypeVersion* | *DocumentFormatVersion* |
| *MimeTypeVersion* | DocumentFormatVersionSupplied |
| CustomerMessage | DocumentMessageSupplied |
| DocNames | DocumentNameSupplied |
| *DocumentNaturalLang* | *DocumentNaturalLanguage* |
| *DocIndex* | *DocumentNumbers* |
| *<none>* | *DocumentSourceApplicationName* |
| *<none>* | *DocumentSourceApplicationVersion* |
| *<none>* | *DocumentSourceOsName* |
| *<none>* | *DocumentSourceOsVersion* |
| Orientation | FeedOrientation |
| Stapling, Stitching, Binding, etc. | Finishings |
| Stapling, Stitching, Binding, etc. Stapling, Stitching, Binding, etc. Stitching ReferenceEdge Offset StitchPositions | FinishingsCol FinishingTemplate Stitching StitchingReferenceEdge StitchingOffset StitchingLocations |
| Stapling, Stitching, Binding, etc. | FinishingTemplate |
| PreferredFont | FontNameRequested |
| FontSize | FontSizeRequested |
| ForceFrontSide | ForceFrontSide |
| Layout | ImpositionTemplate |
| <none> | Impressions |
| *RunList@Pages* | *InsertAfterPageNumber* |
| *RunList@PageCopies* | *InsertCount* |
| InsertSheet InsertSheet RunList@Pages RunList@PageCopies Media MediaType Media | InsertSheet ISheet InsertAfterPage InsertCount Media MediaType MediaCol |
| BillingCode | JobAccountingID |
| *<none>* | *JobAccountingOutputBin* |
| InsertSheet@SheetType= ”AccountingSheet” <none> Media MediaType Media OutputBin | JobAccountingSheets JobAccountingSheetsType Media MediaType MediaCol JobAccountingOutputBin |
| *<none>* | *JobAccountingSheetsType* |
| CustomerInfo@CustomerID | JobAccountingUserID |
| SetCopies | JobCopies |
| Covers (Media, Sides, etc.) CoverType=”Back” Media MediaType Media | JobCoverBack CoverType Media MediaType MediaCol |
| Covers (Media, Sides, etc.) CoverType=”Front” Media MediaType Media | JobCoverFront CoverType Media MediaType MediaCol |
| <none> | JobDelayOutputUntil |
| <none> | JobDelayOutputUntilTime |
| InsertSheet@SheetType=”ErrorSheet” <none> <none> Media MediaType Media | JobErrorSheet JobErrorSheetType JobErrorSheetWhen Media MediaType MediaCol |
| <none> | JobErrorSheetType |
| <none> | JobErrorSheetWhen |
| Stapling, Stitching, Binding, etc. | JobFinishings |
| Stapling, Stitching, Binding, etc. Stapling, Stitching, Binding, etc. Stitching ReferenceEdge Offset StitchPositions | JobFinishingsCol FinishingTemplate Stitching StitchingReferenceEdge StitchingOffset StitchingLocations |
| JDF@Activation | JobHoldUntil |
| JDF@FirstStart | JobHoldUntilTime |
| SettingsPolicy | JobMandatoryElements |
| <none> | JobMessageFromOperator |
| JDF/Comment@Name=”OperatorText” | JobMessageToOperator |
| <none> | JobMoreInfo |
| CustomerJobName | JobName |
| <none> | JobOriginatingUserName |
| <none> | JobOriginatingUserUri |
| Password | JobPassword |
| <none> | JobPasswordEncryption |
| Contact@ContactTypes=”Customer” | JobPhoneNumber |
| JobPriority | JobPriority |
| Layout@ShowList=”JobRecipientName” | JobRecipientName |
| **<TBD – complex mappings>** | JobSaveDisposition SaveDisposition SaveInfo SaveDocumentFormat SaveLocation SaveName |
| InsertSheet@ShowList=”UserText” | JobSheetMessage |
| SheetType=”JobSheet”, etc. | JobSheets |
| SheetType=”JobSheet”, etc. SheetType=”JobSheet”, etc. Media MediaType Media | JobSheetsCol JobSheets Media MediaType MediaCol |
| <none> | KOctets |
| Media | Media |
| Media Media@BackCoatings Media@MediaColorName Media@FrontCoatings Media@GrainDirection Media@HoleType Media/Comment@Name=”Description” Media@CatalogID Media@MediaSetCount Media@Preprinted Media@Recycled Media@Dimensions (see Media@Dimensions) (see Media@Dimensions) Media Media@Thickness <none> Media@MediaType Media@Weight <none> <none> <none> <none> Media@Location (input tray name) | MediaCol MediaBackCoating MediaColor MediaFrontCoating MediaGrain MediaHoleCount MediaInfo MediaKey MediaOrderCount MediaPreprinted MediaRecycled MediaSize XDimension YDimension MediaSizeName MediaThickness MediaTooth MediaType MediaWeightMetric MediaBottomMargin MediaLeftMargin MediaRightMargin MediaTopMargin MediaSource |
| *Media@BackCoatings* | *MediaBackCoating* |
| *Media@MediaColorName* | *MediaColor* |
| *Media@FrontCoatings* | *MediaFrontCoating* |
| *Media@GrainDirection* | *MediaGrain* |
| *Media@HoleType* | *MediaHoleCount* |
| *Media/Comment@Name=”Description”* | *MediaInfo* |
| <none> | MediaInputTrayCheck |
| *Media@CatalogID* | *MediaKey* |
| *Media@MediaSetCount* | *MediaOrderCount* |
| *Media@Preprinted* | *MediaPreprinted* |
| *Media@Recycled* | *MediaRecycled* |
| <none> | MediaSheets |
| *Media@Dimensions* | *MediaSize* |
| *Media* | *MediaSizeName* |
| *Media@Thickness* | *MediaThickness* |
| *<none>* | *MediaTooth* |
| Media@MediaType | MediaType |
| *Media@Weight* | *MediaWeightMetric* |
| <none> | MultipleDocumentsHandling |
| NumberUp | NumberUp |
| FinishedPageOrientation | OrientationRequested |
| OutputBin | OutputBin |
| <none> | OutputDevice |
| **<TBD – complex mappings>** | Overrides Override Pages PageRange Lowerbound Upperbound DocumentNumbers NumberRange Lowerbound Upperbound DocumentCopies PCopiesRange Lowerbound Upperbound OverridingElements |
| PageDelivery | PageDelivery |
| PageOrder | PageOrderReceived |
| RunList@Pages <none> (see above) (see above) | PageRanges PageRange Lowerbound Upperbound |
| *<none>* | *Pages* |
| <none> <none> | PagesPerSubset Pages |
| <none> <none> <none> <none> <none> | PdlInitFiles PdlInitFile PdlInitFileLocation PdlInitFileName PdlInitFileEntry |
| *<none>* | *PdlInitFileEntry* |
| *<none>* | *PdlInitFileName* |
| *<none>* | *PdlInitFileEntry* |
| PresentationDirection | PresentationDirectionNumberUp |
| <none> | PrintColorMode  |
| <none> | PrintContentOptimize |
| RenderingIntent | PrintRenderingIntent |
| **<TBD – complex mappings>** | ProofPrint Copies Media MediaCol |
| PrintQuality | Quality |
| OutputResolution | Resolution |
| *<none>* | *SaveDisposition* |
| *<none>* | *SaveDocumentFormat* |
| *<none>* | *SaveInfo* |
| *<none>* | *SaveLocation* |
| *<none>* | *SaveName* |
| InsertSheet@SheetType=”Separator” InsertSheet@SheetUsage Media MediaType Media | SeparatorSheets SeparatorSheetsType Media MediaType MediaCol |
| *InsertSheet@SheetUsage* | *SeparatorSheetsType* |
| SheetCollate | SheetCollate |
| LayoutIntent@Sides | Sides |
| *StitchPositions* | *StitchingLocations* |
| *Offset* | *StitchingOffset* |
| *ReferenceEdge* | *StitchingReferenceEdge* |
| <none> | TemplateCreatorUserName |
| <none> | TemplateId |
| <none> | TemplateInfo |
| <none> | TemplateName |
| <none> | TemplateType |
| *(see MediaSizeName)* | *XDimension* |
| ImageShift@PositionX | XImagePosition |
| <none> | XImageShift |
| ImageShift@ShiftFront | XSide1ImageShift |
| ImageShift@ShiftBack | XSide2ImageShift |
| *(see MediaSizeName)* | *YDimension* |
| ImageShift@PositionY | YImagePosition |
| <none> | YImageShift |
| ImageShift@ShiftFront | YSide1ImageShift |
| ImageShift@ShiftBack | YSide2ImageShift |

1. References
	1. Normative References

[CIP4JDF] CIP4, "JDF Specification Release 1.4a", December 2009, http://www.cip4.org/menu.php?name=technical\_resources

[CIP4IDP] CIP4, "Integrated Digital Printing (IDP) ICS Version 1.3 Errata Revision A, February 2009, http://www.cip4.org/document\_archive/ics.php