



IDML File Format Specification CS5.5 Update



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1 Abstract

This document describes changes to the structure of IDML files and the IDML schema made for Adobe InDesign CS5.5. For more information on IDML, refer to the *Adobe IDML File Format Specification*. This document follows the terminology and conventions described in that document.

2 Introduction

Most of the changes to the IDML schema for involve the digital publishing features introduced in InDesign CS 5.5. For the most part, these changes appear as new properties (attributes, in the XML of the IDML file itself) on existing objects (XML elements in the IDML file). A small number of new objects and enumerations have been added. The overall structure of the IDML document (that is, the contents of the IDML zip archive) has not changed, and remains as documented in section 8, "IDML Document Structure," of the *Adobe IDML File Format Specification*.

3 New Elements

This section describes new elements which have been added to the IDML schema for InDesign CS5.5.

3.1 Articles

Articles give users a way to associate page items with each other for export to electronic publishing (ePub) formats. For more on articles, refer to the Adobe InDesign CS5.5 online help.

The `<Article>` element appears as a child of the `<Document>` element (in an IDML package, the `<Document>` element is in the `designmap.xml` file). The `<Article>` element includes a list of one or more `<ArticleMember>` elements. Each `<ArticleMember>` element corresponds to a page item associated with the article.

The `<ArticleMember>` elements contain the attribute `ItemRef`, which simply points to the unique ID (`self` attribute) of the corresponding page item (for more on element cross references in IDML documents, refer to 9.5.4, "Object Reference Format," in the *Adobe IDML File Format Specification*). A given page item can be associated with any number of articles.

3.1.1 Article

Schema Example 1. Article

```
Article_Object = element Article {
  attribute Self { xsd:string },
  attribute Name { xsd:string }?,
  attribute ArticleExportStatus { xsd:boolean }?,
  element Properties {
    element Label { element KeyValuePair { KeyValuePair_TypeDef }*
    }?
  }
  ?
  ,
  (
    ArticleMember_Object*
  )
}
```

Table 1. Article Properties Represented as Attributes

Name	Type	Req	Description
ArticleExport-Status	boolean	no	If true, include the article information in exported files.

Table 2. Article Properties Represented as Elements

ArticleMember	ArticleMember_Object	yes	A list of one or more article members (which store cross references to the page items associated with the article).
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IDML Example 1. Article

```
<Article Self="ue1" Name="my article1" ArticleExportStatus="true">
  <ArticleMember Self="ue1ArticleMember0" ItemRef="ue0"/>
  <ArticleMember Self="ue1ArticleMember1" ItemRef="udc"/>
</Article>
```

3.1.2 ArticleMember

Schema Example 2. ArticleMember

```
ArticleMember_Object = element ArticleMember {
  attribute Self { xsd:string },
  attribute ItemRef { xsd:string }
}
```

Table 3. ArticleMember Properties Represented as Attributes

Name	Type	Req	Description
ItemRef	String	yes	A reference to the self attribute of the associated page item.

3.2 EPubExportPreference

The <EPubExportPreference> element has been added as a child of the <Preferences> element.

Schema Example 3. EPubExportPreference

```

EPubExportPreference_Object = element EPubExportPreference {
  attribute IncludeDocumentMetadata { xsd:boolean }?,
  attribute EpubPublisher { xsd:string }?,
  attribute Id { xsd:string }?,
  attribute ExportOrder { ExportOrder_EnumValue }?,
  attribute EpubCover { EpubCover_EnumValue }?,
  attribute CoverImageFile { xsd:string }?,
  attribute BulletExportOption { BulletListExportOption_EnumValue }?,
  attribute NumberedListExportOption { NumberedListExportOption_EnumValue }?,
  attribute LeftMargin { xsd:double }?,
  attribute RightMargin { xsd:double }?,
  attribute TopMargin { xsd:double }?,
  attribute BottomMargin { xsd:double }?,
  attribute MarginUnit { SpaceUnitType_EnumValue }?,
  attribute ViewDocumentAfterExport { xsd:boolean }?,
  attribute ImageExportResolution { ImageResolution_EnumValue }?,
  attribute CustomImageSizeOption { ImageSizeOption_EnumValue }?,
  attribute PreserveLayoutAppearance { xsd:boolean }?,
  attribute ImageAlignment { ImageAlignmentType_EnumValue }?,
  attribute ImageSpaceBefore { xsd:double {minInclusive="0"
maxInclusive="8640"} }?,
  attribute ImageSpaceAfter { xsd:double {minInclusive="0"
maxInclusive="8640"} }?,
  attribute SpaceUnit { SpaceUnitType_EnumValue }?,
  attribute ApplyImageAlignmentToAnchoredObjectSettings { xsd:boolean }?,
  attribute UseImagePageBreak { xsd:boolean }?,
  attribute ImagePageBreak { ImagePageBreakType_EnumValue }?,
  attribute ImageConversion { ImageConversion_EnumValue }?,
  attribute GIFOptionsPalette { GIFOptionsPalette_EnumValue }?,
  attribute GIFOptionsInterlaced { xsd:boolean }?,
  attribute JPEGOptionsQuality { JPEGOptionsQuality_EnumValue }?,
  attribute JPEGOptionsFormat { JPEGOptionsFormat_EnumValue }?,
  attribute Level { xsd:int }?,
  attribute IgnoreObjectConversionSettings { xsd:boolean }?,
  attribute Format { xsd:boolean }?,
  attribute UseTocStyle { xsd:boolean }?,
  attribute TocStyleName { xsd:string }?,
  attribute BreakDocument { xsd:boolean }?,
  attribute ParagraphStyleName { xsd:string }?,
  attribute FootnoteFollowParagraph { xsd:boolean }?,
  attribute StripSoftReturn { xsd:boolean }?,
  attribute CSSExportOption { StyleSheetExportOption_EnumValue }?,
  attribute IncludeCSSDefinition { xsd:boolean }?,
  attribute PreserveLocalOverride { xsd:boolean }?,
  attribute EmbedFont { xsd:boolean }?,
  attribute ExternalCSSPath { xsd:string }?
}

```

Table 4. EPubExportPreference Properties Represented as Attributes

Name	Type	Req	Description
IncludeDocument-Metadata	boolean	no	If true, output document metadata into the exported ePub.
EpubPublisher	string	no	The name of the ePub publisher.
ExportOrder	ExportOrder_EnumValue	no	The order in which to export the ePub. Can be ArticlePanelOrder, LayoutOrder, or XmlStructureOrder.
EpubCover	EpubCover_EnumValue	no	The ePub cover option. Can be ExternalImage, FirstPage, or None.
CoverImageFile	string	no	The file path to the external image (if EpubCover is ExternalImage).
BulletExport-Option	BulletListExport-Option_EnumValue	no	Defines the method used to export bullets to the ePub. Can be AsText (convert the bullets to text characters) or UnorderedList (convert the bullets to an HTML unordered list).
NumberedList-ExportOption	NumberedList-ExportOption_EnumValue	no	Defines the method used to export numbered lists to the ePub. Can be AsText (convert the numbers to text characters), OrderedList (convert the list to an HTML ordered list), or StaticOrderedList (convert the list to an HTML static ordered list).
LeftMargin	double	no	Left margin of the ePub (in units defined by the MarginUnit attribute).
RightMargin	double	no	Right margin of the ePub (in units defined by the MarginUnit attribute).
TopMargin	double	no	Top margin of the ePub (in units defined by the MarginUnit attribute).
BottomMargin	double	no	Bottom margin of the ePub (in units defined by the MarginUnit attribute).
MarginUnit	SpaceUnitType_EnumValue	no	The measurement units to use for the margins of the exported ePub. Can be CssEm or CssPixel.
ViewDocument-AfterExport	boolean	no	If true, display the exported ePub after the export process is complete.
ImageExport-Resolution	ImageResolution_EnumValue	no	Sets the resolution of images in the exported ePub. Can be Ppi150, Ppi300, Ppi72, or Ppi96.
CustomImageSize-Option	ImageSizeOption_EnumValue	no	Sets the custom image size. Can be SizeFixed or SizeRelativeToPageWidth.
Preserve-LayoutAppearance	boolean	no	If true, format image based on layout appearance.
ImageAlignment	ImageAlignment-Type_EnumValue	no	Alignment applied to images. Can be AlignCenter, AlignRight, or AlignLeft.
ImageSpaceBefore	double (0-8640)	no	Space before applied to images (in units defined by the SpaceUnit attribute).

Name	Type	Req	Description
ImageSpaceAfter	double (0-8640)	no	Space after applied to images (in units defined by the SpaceUnit attribute).
SpaceUnit	SpaceUnitType_EnumValue	no	The measurement units to use in the exported ePub. Can be <code>CssEm</code> or <code>CssPixel</code> .
ApplyImage-Alignment-ToAnchored-ObjectSettings	boolean	no	If true, apply image alignment to anchored object settings.
UseImagePageBreak	boolean	no	If true, image page break settings will be used in objects.
ImagePageBreak	ImagePageBreak-Type_EnumValue	no	Image page break settings to be used with objects (when UseImagePageBreak is true). Can be <code>PageBreakBefore</code> , <code>PageBreakAfter</code> , or <code>PageBreakBeforeAndAfter</code> .
ImageConversion	ImageConversion_EnumValue	no	The file format to use for converted images. Note: Valid only when copy optimized images and/or copy formatted images is true. Can be <code>Automatic</code> , <code>Gif</code> , <code>Jpeg</code> , or <code>Png</code> .
GIFOptionsPalette	GIFOptions-Palette_EnumValue	no	The color palette for GIF conversion. Note: Not valid when ImageConversion is <code>Jpeg</code> . Can be <code>AdaptivePalette</code> , <code>MacintoshPalette</code> , <code>WebPalette</code> , or <code>WindowsPalette</code> .
GIFOptions-Interlaced	boolean	no	If true, use interlaced GIF (valid when ImageConversion is <code>Gif</code>).
JPEGOptions-Quality	JPEGOptions-Quality_EnumValue	no	The quality of converted JPEG images. Note: Not valid when image conversion is <code>Gif</code> . Can be <code>High</code> , <code>Low</code> , <code>Maximum</code> , or <code>Minimum</code> .
JPEGOptionsFormat	JPEGOptions-Format_EnumValue	no	The formatting method for converted JPEG images. Note: Not valid when image conversion is <code>Gif</code> . Can be <code>BaselineEncoding</code> or <code>ProgressiveEncoding</code> .
Level	int	no	The PNG compression level (when ImageConversion is <code>Png</code>).
IgnoreObject-Conversion-Settings	boolean	no	If true, ignore object level image conversion settings.
Format	boolean	no	If true, export ePub in XHTML format. Otherwise, export using the DTBook format.
UseTocStyle	boolean	no	If true, use InDesign TOC style to generate the ePub TOC.
TocStyleName	string	no	The name of TOC style to use to generate the ePub TOC (when UseTocStyle is true).
BreakDocument	boolean	no	If true, break the InDesign document into smaller pieces when generating the ePub.
ParagraphStyle-Name	string	no	The name of paragraph style to use in breaking the InDesign document into smaller pieces (when BreakDocument is true).

Name	Type	Req	Description
FootnoteFollow-Paragraph	boolean	no	If true, output footnotes immediately after the paragraph containing the footnote reference.
StripSoftReturn	boolean	no	If true, strip soft returns on export.
CSSExportOption	StyleSheetExport-Option_EnumValue	no	The cascading style sheet export option. Can be EmbeddedCss, ExternalCss, none, or StyleNameOnly.
IncludeCSS-Definition	boolean	no	If true, include the CSS definitions in the exported ePub (used when CSSExportOption is EmbeddedCss).
PreserveLocal-Override	boolean	no	If true, export the local style overrides.
EmbedFont	boolean	no	If true, embed fonts in the exported ePub.
ExternalCSSPath	string	no	The path to the external CSS stylesheet (when CSSExportOption is ExternalCss).

IDML Example 2. EPubExportPreference

```
<EpubExportPreference IncludeDocumentMetadata="true" EpubPublisher="" Id=""
  ExportOrder="LayoutOrder" EpubCover="FirstPage" CoverImageFile=""
  BulletExportOption="UnorderedList" NumberedListExportOption="OrderedList"
  LeftMargin="0.5" RightMargin="0.5" TopMargin="0.5" BottomMargin="0.5"
  MarginUnit="CssEm" ViewDocumentAfterExport="true" ImageExportResolution="Ppi150"
  CustomImageSizeOption="SizeFixed" PreserveLayoutAppearance="true"
  ImageAlignment="AlignCenter" ImageSpaceBefore="0" ImageSpaceAfter="0"
  SpaceUnit="CssEm" ApplyImageAlignmentToAnchoredObjectSettings="false"
  UseImagePageBreak="false" ImagePageBreak="PageBreakBefore"
  ImageConversion="Automatic" GIFOptionsPalette="AdaptivePalette"
  GIFOptionsInterlaced="false" JPEGOptionsQuality="High"
  JPEGOptionsFormat="ProgressiveEncoding" Level="5"
  IgnoreObjectConversionSettings="false" Format="true" UseTocStyle="false"
  TocStyleName="$ID/DefaultTOCStyleName" BreakDocument="false"
  ParagraphStyleName="$ID/NormalParagraphStyle" FootnoteFollowParagraph="false"
  StripSoftReturn="false" CSSExportOption="EmbeddedCSS" IncludeCSSDefinition="true"
  PreserveLocalOverride="true" EmbedFont="true" ExternalCSSPath="template.css"/>
```

3.3 HTMLExportPreference

The <HTMLExportPreference> element has been added as a child of the <Preferences> element.

Schema Example 4. HTMLExportPreference

```
HTMLExportPreference_Object = element HTMLExportPreference {
  attribute ExportSelection { xsd:boolean }?,
  attribute ExportOrder { ExportOrder_EnumValue }?,
  attribute BulletExportOption { BulletListExportOption_EnumValue }?,
  attribute NumberedListExportOption { NumberedListExportOption_EnumValue }?,
  attribute LeftMargin { xsd:double }?,
  attribute RightMargin { xsd:double }?,
  attribute TopMargin { xsd:double }?,
  attribute BottomMargin { xsd:double }?,
```

```

attribute MarginUnit { SpaceUnitType_EnumValue }?,
attribute ViewDocumentAfterExport { xsd:boolean }?,
attribute ImageExportOption { ImageExportOption_EnumValue }?,
attribute ImageExportResolution { ImageResolution_EnumValue }?,
attribute CustomImageSizeOption { ImageSizeOption_EnumValue }?,
attribute PreserveLayoutAppearance { xsd:boolean }?,
attribute ImageAlignment { ImageAlignmentType_EnumValue }?,
attribute ImageSpaceBefore { xsd:double {minInclusive="0"
maxInclusive="8640"} }?,
attribute ImageSpaceAfter { xsd:double {minInclusive="0"
maxInclusive="8640"} }?,
attribute SpaceUnit { SpaceUnitType_EnumValue }?,
attribute ApplyImageAlignmentToAnchoredObjectSettings { xsd:boolean }?,
attribute ImageConversion { ImageConversion_EnumValue }?,
attribute GIFOptionsPalette { GIFOptionsPalette_EnumValue }?,
attribute GIFOptionsInterlaced { xsd:boolean }?,
attribute JPEGOptionsQuality { JPEGOptionsQuality_EnumValue }?,
attribute JPEGOptionsFormat { JPEGOptionsFormat_EnumValue }?,
attribute Level { xsd:int }?,
attribute IgnoreObjectConversionSettings { xsd:boolean }?,
attribute ServerPath { xsd:string }?,
attribute ImageExtension { xsd:string }?,
attribute CSSExportOption { StyleSheetExportOption_EnumValue }?,
attribute IncludeCSSDefinition { xsd:boolean }?,
attribute PreserveLocalOverride { xsd:boolean }?,
attribute ExternalCSSPath { xsd:string }?,
attribute LinkToJavascript { xsd:boolean }?,
attribute JavascriptURL { xsd:string }?
}

```

Table 5. HTMLExportPreference Properties Represented as Attributes

Name	Type	Req	Description
ExportSelection	boolean	no	If true, export the selection.
ExportOrder	ExportOrder_EnumValue	no	The order in which to export HTML. Can be ArticlePanelOrder, LayoutOrder, or XmlStructureOrder.
BulletExport-Option	BulletListExport-Option_EnumValue	no	Defines the method used to export bullets to the HTML. Can be AsText (convert the bullets to text characters) or UnorderedList (convert the bullets to an HTML unordered list).
NumberedList-ExportOption	NumberedList-ExportOption_EnumValue	no	Defines the method used to export numbered lists to HTML. Can be AsText (convert the numbers to text characters), OrderedList (convert the list to an HTML ordered list), or StaticOrderedList (convert the list to an HTML static ordered list).
LeftMargin	double	no	Left margin of the HTML (in units defined by the MarginUnit attribute).
RightMargin	double	no	Right margin of the HTML (in units defined by the MarginUnit attribute).

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Name	Type	Req	Description
TopMargin	double	no	Top margin of the HTML (in units defined by the MarginUnit attribute).
BottomMargin	double	no	Bottom margin of the HTML (in units defined by the MarginUnit attribute).
MarginUnit	SpaceUnitType_EnumValue	no	The measurement units to use for the margins of the exported HTML. Can be CssEm or CssPixel.
ViewDocument-AfterExport	boolean	no	If true, display the exported HTML after the export process is complete.
ImageExportOption	ImageExport-Option_EnumValue	no	Controls the method used to export images. Can be LinkToServer, OptimizedImage, or OriginalImage.
ImageExport-Resolution	ImageResolution_EnumValue	no	Sets the resolution of images in the exported HTML. Can be Ppi150, Ppi300, Ppi72, or Ppi96.
CustomImageSize-Option	ImageSizeOption_EnumValue	no	Sets the custom image size. Can be SizeFixed or SizeRelativeToPageWidth.
PreserveLayout-Appearence	boolean	no	If true, format image based on layout appearance.
ImageAlignment	ImageAlignment-Type_EnumValue	no	Alignment applied to images. Can be AlignCenter, AlignRight, or AlignLeft.
ImageSpaceBefore	double (0 to 8640)	no	Space before applied to images (in units defined by the SpaceUnit attribute).
ImageSpaceAfter	double (0 to 8640)	no	Space after applied to images (in units defined by the SpaceUnit attribute).
SpaceUnit	SpaceUnitType_EnumValue	no	The measurement units to use in the exported HTML. Can be CssEm or CssPixel.
ApplyImageAlign-mentToAnchored-ObjectSettings	boolean	no	If true, apply image alignment to anchored object settings.
ImageConversion	ImageConversion_EnumValue	no	The file format to use for converted images. Note: Valid only when copy optimized images and/or copy formatted images is true. Can be Automatic, Gif, Jpeg, or Png.
GIFOptionsPalette	GIFOptions-Palette_EnumValue	no	The color palette for GIF conversion. Note: Not valid when ImageConversion is Jpeg. Can be AdaptivePalette, MacintoshPalette, WebPalette, or WindowsPalette.
GIFOptions-Interlaced	boolean	no	If true, use interlaced GIF (valid when ImageConversion is Gif).
JPEGOptions-Quality	JPEGOptions-Quality_EnumValue	no	The quality of converted JPEG images. Note: Not valid when image conversion is Gif. Can be High, Low, Maximum, or Minimum.

Name	Type	Req	Description
JPEGOptionsFormat	JPEGOptions-Format_EnumValue	no	The formatting method for converted JPEG images. Note: Not valid when image conversion is Gif. Can be BaselineEncoding or ProgressiveEncoding.
Level	int	no	The PNG compression level (when ImageConversion is Png).
IgnoreObject-Conversion-Settings	boolean	no	If true, ignore object level image conversion settings.
ServerPath	string	no	The server path for exported images (when ImageExportOption is LinkToServer).
ImageExtension	string	no	The extension for exported images (when ImageExportOption is LinkToServer).
CSSExportOption	StyleSheetExport-Option_EnumValue	no	The cascading style sheet export option. Can be EmbeddedCss, ExternalCss, none, or StyleNameOnly.
IncludeCSS-Definition	boolean	no	If true, include the CSS definitions in the exported HTML (used when CSSExportOption is EmbeddedCss).
PreserveLocal-Override	boolean	no	If true, export the local style overrides.
ExternalCSSPath	string	no	The path to the external CSS stylesheet (when CSSExportOption is ExternalCss).
LinkToJavascript	boolean	no	If true, link to JavaScript on the server.
JavascriptURL	string	no	The path to the server containing the JavaScript associated with the exported HTML (when LinkToJavaScript is true).

IDML Example 3. HTMLExportPreference

```
<HTMLExportPreference ExportSelection="true" ExportOrder="LayoutOrder"
BulletExportOption="UnorderedList" NumberedListExportOption="OrderedList"
LeftMargin="0" RightMargin="0" TopMargin="0" BottomMargin="0"
MarginUnit="CssPixel" ViewDocumentAfterExport="true"
ImageExportOption="OptimizedImage" ImageExportResolution="Ppi150"
CustomImageSizeOption="SizeFixed" PreserveLayoutAppearance="false"
ImageAlignment="AlignCenter" ImageSpaceBefore="0" ImageSpaceAfter="0"
SpaceUnit="CssEm" ApplyImageAlignmentToAnchoredObjectSettings="false"
ImageConversion="Automatic" GIFOptionsPalette="AdaptivePalette"
GIFOptionsInterlaced="false" JPEGOptionsQuality="High"
JPEGOptionsFormat="ProgressiveEncoding" Level="5"
IgnoreObjectConversionSettings="false" ServerPath="" ImageExtension=".jpg"
CSSExportOption="EmbeddedCSS" IncludeCSSDefinition="true"
PreserveLocalOverride="true" ExternalCSSPath="" LinkToJavascript="false"
JavascriptURL=""/>
```

3.4 LinkedStoryOption

The `<LinkedStoryOption>` element has been added as a child of `<Document>`, `<XmlStory>`, and `<Story>` elements.

Schema Example 5. LinkedStoryOption

```
LinkedStoryOption_Object = element LinkedStoryOption {
  attribute UpdateWhileSaving { xsd:boolean }?,
  attribute WarnOnUpdateOfEditedStory { xsd:boolean }?,
  attribute RemoveForcedLineBreaks { xsd:boolean }?
}
```

Table 6. LinkedStoryOption Properties Represented as Attributes

Name	Type	Req	Description
UpdateWhileSaving	boolean	no	If true, the linked story will be updated while saving.
WarnOnUpdateOf- EditedStory	boolean	no	If true, a warning will be shown if the update link operation will override local edits.
RemoveForcedLine- Breaks	boolean	no	If true, forced line breaks will be removed during story creation or update.

3.5 StyleExportTagMap

The `<StyleExportTagMap>` element maps an export type to an export tag, and has been added as a child of `<CharacterStyle>`.

Schema Example 6. StyleExportTagMap

```
StyleExportTagMap_Object = element StyleExportTagMap {
  attribute Self { xsd:string },
  attribute ExportType { xsd:string },
  attribute ExportTag { xsd:string },
  attribute ExportClass { xsd:string },
  attribute ExportAttributes { xsd:string }
}
```

Table 7. StyleExportTagMap Properties Represented as Attributes

Name	Type	Req	Description
ExportType	string	yes	The type of export.
ExportTag	string	yes	The tag to map.
ExportClass	string	yes	The class to map.
ExportAttributes	string	yes	The attributes to map.

3.6 ObjectExportOption

The <ObjectExportOption> element has been added to all page items: <Rectangle>, <Oval>, <GraphicLine>, <Polygon>, <TextFrame>, and <Group> elements.

Schema Example 7. ObjectExportOption

```
ObjectExportOption_Object = element ObjectExportOption {
  attribute AltTextSourceType { SourceType_EnumValue }?,
  attribute ActualTextSourceType { SourceType_EnumValue }?,
  attribute CustomAltText { xsd:string }?,
  attribute CustomActualText { xsd:string }?,
  attribute ApplyTagType { TagType_EnumValue }?,
  attribute CustomImageConversion { xsd:boolean }?,
  attribute ImageConversionType { ImageFormat_EnumValue }?,
  attribute CustomImageSizeOption { ImageSizeOption_EnumValue }?,
  attribute ImageExportResolution { ImageResolution_EnumValue }?,
  attribute GIFOptionsPalette { GIFOptionsPalette_EnumValue }?,
  attribute GIFOptionsInterlaced { xsd:boolean }?,
  attribute JPEGOptionsQuality { JPEGOptionsQuality_EnumValue }?,
  attribute JPEGOptionsFormat { JPEGOptionsFormat_EnumValue }?,
  attribute CustomImageAlignment { xsd:boolean }?,
  attribute ImageAlignment { ImageAlignmentType_EnumValue }?,
  attribute ImageSpaceBefore { xsd:double {minInclusive="0"
maxInclusive="8640"} }?,
  attribute ImageSpaceAfter { xsd:double {minInclusive="0"
maxInclusive="8640"} }?,
  attribute SpaceUnit { SpaceUnitType_EnumValue }?,
  attribute UseImagePageBreak { xsd:boolean }?,
  attribute ImagePageBreak { ImagePageBreakType_EnumValue }?,
  element Properties {
    element AltMetadataProperty {
      attribute NamespacePrefix { xsd:string },
      attribute PropertyPath { xsd:string }
    }?&
    element ActualMetadataProperty {
      attribute NamespacePrefix { xsd:string },
      attribute PropertyPath { xsd:string }
    }?
  }
  ?
}
```

Table 8. ObjectExportOption Properties Represented as Attributes

Name	Type	Req	Description
AltTextSourceType	SourceType_Enum-Value	no	The source type of alternate text. Can be SourceCustom (use the value from CustomAltText), SourceXmlStructure (use the tag name of the XML element associated with the object), SourceXmpDescription (use XMP description value), SourceXmpHeadline (use the XMP headline value), SourceXmpOther (use the XMP value defined by the CustomAltText attribute), or SourceXmpTitle (use the XMP title).
ActualTextSourceType	SourceType_Enum-Value	no	The source type of actual text. Can be SourceCustom (use the value from CustomActualText), SourceXmlStructure (use the tag name of the XML element associated with the object), SourceXmpDescription (use XMP description value), SourceXmpHeadline (use the XMP headline value), SourceXmpOther (use the XMP value defined by the CustomActualText attribute), or SourceXmpTitle (use the XMP title).
CustomAltText	string	no	The custom alternate text entered by the user (when the AltSourceType is SourceCustom) or the name of an XMP field (when the AltSourceType is SourceXmpOther).
CustomActualText	string	no	The custom actual text entered by the user (when the ActualSourceType is SourceCustom) or the name of an XMP field (when the ActualSourceType is SourceXmpOther).
ApplyTagType	TagType_EnumValue	no	The tag type of the page item. Can be TagArtifact, TagBasedOnObject, or TagFromStructure.
CustomImageConversion	boolean	no	If true, custom image conversion is enabled for the object.
ImageConversionType	ImageFormat_Enum-Value	no	Allows user to select the image format for conversion when CustomImageConversion is true. Can be Gif, Jpeg, or Png.
ImageExportResolution	ImageResolution_EnumValue	no	Sets the resolution of exported images. Can be Ppi150, Ppi300, Ppi72, or Ppi96.
GIFOptionsPalette	GIFOptions-Palette_EnumValue	no	The color palette for GIF conversion. Note: Not valid when ImageConversion is Jpeg. Can be AdaptivePalette, MacintoshPalette, WebPalette, or WindowsPalette.
GIFOptionsInterlaced	boolean	no	If true, use interlaced GIF (valid when ImageConversion is Gif).
JPEGOptionsQuality	JPEGOptions-Quality_EnumValue	no	The quality of converted JPEG images. Note: Not valid when image conversion is Gif. Can be High, Low, Maximum, or Minimum.

Name	Type	Req	Description
JPEGOptionsFormat	JPEGOptions-Format_EnumValue	no	The formatting method for converted JPEG images. Note: Not valid when image conversion is Gif. Can be BaselineEncoding or ProgressiveEncoding.
CustomImage-Alignment	boolean	no	If true, custom image alignment is enabled for object.
ImageAlignment	ImageAlignment-Type_EnumValue	no	Alignment applied to images. Can be AlignCenter, AlignRight, or AlignLeft.
ImageSpaceBefore	double (0 to 8640)	no	Space before applied to images (in units defined by the SpaceUnit attribute).
ImageSpaceAfter	double (0 to 8640)	no	Space after applied to images (in units defined by the SpaceUnit attribute).
SpaceUnit	SpaceUnitType_EnumValue	no	The measurement units to for export. Can be CssEm or CssPixel.
UseImagePageBreak	boolean	no	If true, image page break settings will be used in objects.
ImagePageBreak	ImagePageBreak_EnumValue	no	Image page break settings to be used with objects (when UseImagePageBreak is true). Can be PageBreakBefore, PageBreakAfter, or PageBreakBeforeAndAfter.

Table 9. ObjectExportOption Properties Represented as Elements

Name	Type	Req	Description
AltMetadata-Property	Array	no	The metadata property to use as source of alternate text. Can be an ordered array containing NamespacePrefix (as a string), and PropertyPath (as a string).
ActualMetadata-Property	Array	no	The metadata property to use as source of alternate text. Can be an ordered array containing NamespacePrefix (as a string), and PropertyPath (as a string).

3.7 TaggedPDFPreference

Schema Example 8. TaggedPDFPreference

```
TaggedPDFPreference_Object = element TaggedPDFPreference {
  attribute StructureOrder { TaggedPDFStructureOrderOptions_EnumValue }?
}
```

Table 10. TaggedPDFPreferenceStructureOrder Properties Represented as Elements

Name	Type	Req	Description
StructureOrder	TaggedPDF- StructureOrder- Options_EnumValue	no	Can be UseArticles (use the order defined in the Articles panel) or UseXmlStructure (use the order of elements in the XML structure).

IDML Example 4. TaggedPDFPreferenceStructureOrder

```
<TaggedPDFPreferenceStructureOrder="UseXMLStructure"/>
```

4 Other Changes

This section covers changes in IDML for InDesign CS5.5 that are below the level of new elements.

4.7.1 LinkResourceID

The `LinkResourceID` attribute has been added to the `<XmlStory>` and `<Story>` elements. This attribute refers to the `self` attribute of the parent story or XML story to which the child story is linked.

4.7.2 ArticleChildrenList

The `ArticleChildrenList` attribute has been added to the `<Group>` element. This attribute contains an ordered list of the `self` attributes of page items inside the group (when the group itself is an article member).

IDML Example 5. ArticleChildrenList

```
<Group Self="ulda" ArticleChildrenList="u189 u19d uld6"/>
```