



XML Job Ticket User Guide

Version 4.1

www.adlibsoftware.com

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Introduction

The Adobe® Portable Document Format (PDF) file type is the de facto standard for document interchange. PDF documents can be created from any electronic document as well as from scanned images from paper. PDF files can be displayed and printed from most platforms and maintain document fidelity between platforms. Many organizations use PDF files for archiving and to enable collaboration and automate document workflows throughout the document lifecycle. This often requires augmenting the PDF with additional annotations such as Watermarks, Header/Footer information as well as the ability to merging multiple documents of different types into a single PDF document. In addition, merged PDF files may require a full Table of Contents, with Hyperlinks, for each document as well as a full set of Bookmarks to provide effective navigation throughout the compound document. Express is a high performance application that automates the conversion of your business content to PDF, Plain (ASCII) Text and Image files. Express converts an extensive list of file types including standard business documents, images, graphics, web and legacy files to retain the look and feel of the original document for archiving, exchanging between other companies, printing or viewing. Express XML Job Tickets are designed to provide complete control of the PDF conversion process using Express. Automated document processing is easily implemented using XML Job Tickets.

The information contained within this document requires an understanding of both the Express product as well as some basic knowledge of XML.

XML Job Ticket Overview

An XML Job Ticket is an electronic file that contains all the information for the production of a document processing job. A document processing job involves one or more documents that need to be rendered, annotated and distributed. The XML Job Ticket contains the set of specific document processing options, expressed in XML, used by Express to process the job. The XML Job Ticket file is a plain (ASCII) text file with an .XML extension. Express does support the use of Unicode XML Job Tickets. The XML Job Ticket is validated by the Express Document Type Definition (DTD) provided with Express. Please visit the World Wide Web Consortium (W3C) web site at www.w3c.org/XML for additional information on XML and DTD.

XML Job Tickets support all of the features provided by the Express user interface listed below.

- Header and Footer
- Watermark
- PDF Overlay
- PDF Bookmarks
- Envision OCR
- PDF Splitting/Stitching
- PDF Font Embedding, Optimization
- PDF Information Extraction
- Transformations, PDF Page and Content Scaling
- PDF Settings and Print Settings
- PDF Document Open Options
- CAD, HTML, Text Page Setup
- Logging
- Bookmark Creation
- Table of Contents Report
- Scripts
- Document Validation
- Security
- Compressor

In addition to the above features, XML Job Tickets extend the functionality of the Express User Interface to include the following advanced features:

- File Merging
- Custom Bookmarks
- Custom Hyperlinks
- Custom Table of Contents
- Index
- Digital Signatures
- PDF Attachments
- PDF Document Information (METADATA)
- PDF Form Fields
- Multiple Destinations for the Created documents
 - E-Mail Addresses
 - Printers
 - Folders
 - Web, HTTP, FTP Folders

Express DTD

XML Job Tickets are created with a reference to a DTD. The purpose of a DTD is to define the legal building blocks of an XML document. It defines the document structure with a list of legal elements. The DTD defines the default settings which are applied to all documents converted via XML Job Tickets (Please see **Appendix D - Customizing the Express DTD** for more info). XML Job Ticket files do not use any of the Express settings defined in the User Interface because the Express Document Type Definition (AdlibExpress.dtd) referenced in the XML Job Ticket file defines the default settings used when they are not defined in the XML Job Ticket. The AdlibExpress.dtd file resides in the DTD folder of the Express installation folder (e.g. C:\Adlib Express\DTD).

The Express DTD is used to validate the XML Job Ticket with the use of an XML parser. If you try to open an XML document, the XML Parser might generate an error. By accessing the `parseError` object, the exact error code, the error text, and even the line that caused the error can be retrieved. The XML Job Ticket is **valid** if it complies with the constraints expressed in the DTD. Express validates the XML Job Ticket prior to processing it. The DTD is also used to place default settings for that current job; each DTD file can have a different configuration. Users can validate the XML Job Ticket structure by opening it with IE 5.0 or greater.

DTD Backwards Compatibility

Any version of Express can use a DTD that is older than the DTD found within that version as long as the corresponding XML Job Ticket validates against that DTD. However, a newer DTD placed on a system with an older version of Express may cause compatibility problems. An older job ticket may also not validate with a new DTD.

DTD Installation

Upon installation of Express, the Adlib Express DTD is installed in the DTD folder found in the Express installation directory. Any existing DTDs located in the installation directory will be backed up. A backup folder will be created at this location and the existing DTDs will be placed there. When Express is first run, a DTD folder will be created within the "C:\Adlib Express\" directory, and the new DTD will be copied to this location. If a DTD is currently found within this directory, no action will be taken. Also, if the DTD folder is deleted after Express has been executed for the first time, it will not be created a second time.

Some other useful information about XML files:

XML Job Tickets enhance the PDF book marking functionality by providing the ability to define the type of bookmark (Internal, File, Web, E-Mail and Null) and its destination (Path, Page Number, Page Number with X, Y coordinates).

In order to turn off font embedding, Multilanguage must also be turned off as well. If Multilanguage is not turned off, it will override the user's font embedding setting to Enabled.

The difference between content bookmarks and document bookmarks is that document bookmarks will only create a bookmark consisting of the file name(s) of the file(s) being converted.

All elements included within the XML Job Ticket will inherit default values not overridden by the user from the DTD. Not every element has to be included in order for the XML Job Ticket to validate. Simply choosing what is required will suffice. Most defaults have their ENABLED values equal to "Yes" which would cause that element to be applied to the conversion.

Folder paths are absolute, variables and line feeds can be used, e.g.

"&[Path]&[File]<CR>&[PageID]".

Additional information about Job Tickets, along with sample files and sample XML Job Tickets, can be requested by sending an email to info@adlibsoftware.com.

XML Job Ticket Structure

XML files always contain a header and one root element. The root element can contain any number of child elements. Elements can contain zero or more **attribute-value pair**. An **attribute-value pair** (e.g. ENABLED = "Yes") contains the attribute name (e.g. ENABLED) and the value (e.g. "Yes"). The complete XML Job Ticket must be structured as defined by the Adlib Express DTD and will not process successfully if it is not validated according to the DTD.

The Express XML Job Ticket structure uses the JOBS element as the root. The JOBS element contains a child element called JOB. The JOB element is used to define all settings for a single rendering request. The following briefly describe the child elements for JOB element.

DOCINPUTS - Specifies the documents (Filename, Location, ...) to process.

DOCOUTPUTS - Specifies the document types (Filename, Location and Document Type (PDF, TXT, ...)) to create from the documents specified in the DOCINPUTS element.

LOGSETTINGS – Specifies the log files to be created upon processing.

SCRIPTS – Specifies any scripts that are to be run before and/or after processing.

SETTINGS- Specifies all of the document processing settings (Watermark, Header, Footer, Overlay, PDF Settings, Text Settings, ...).

Figure 1 – Sample XML Job Ticket File with all elements

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<?AdlibExpress applanguage="USA" appversion="3.0.0" dtdversion="2.0.0" ?>
<!DOCTYPE JOBS SYSTEM "C:\Adlib Express\DTD\AdlibExpress.dtd">
<JOBS xmlns:JOBS="http://www.adlibsoftware.com" xmlns:JOB="http://www.adlibsoftware.com"><JOB>
<JOB:DOCINPUTS>
  <JOB:DOCINPUT FILENAME="Water on the Space Station.doc" FOLDER="C:\Adlib Express Job Tickets\Docs\" />
</JOB:DOCINPUTS>
<JOB:DOCOUTPUTS>
  <JOB:DOCOUTPUT FILENAME="Defaults.pdf" FOLDER="C:\Adlib Express Job Tickets\XML Job Tickets Output\">
    <JOB:DESTINATION>
      <JOB:DESTFOLDERS>
        <JOB:DESTFOLDER />
      </JOB:DESTFOLDERS>
      <JOB:DESTPRINTERS>
        <JOB:DESTPRINTER />
      </JOB:DESTPRINTERS>
      <JOB:DESTEMAILS />
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    <JOB:LOGSMTPSETTINGS />
  </JOB:EMAILNOTIFICATION>
  <JOB:URINOTIFICATION />
</JOB:LOGSETTINGS>
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</JOB:PRINTERS>
<JOB:SCRIPTS />
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  <JOB:ARCHIVESETTINGS />
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      <JOB:MSEXCELBOOKMARKS />
      <JOB:MSWORDBOOKMARKS>
        <JOB:MSWORDBOOKMARKGROUPS>
          <JOB:MSWORDBOOKMARKGROUP />
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        <JOB:MSWORDSEQFIELDS>
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        </JOB:MSWORDSTYLES>
      </JOB:MSWORDBOOKMARKS>
      <JOB:PDFBOOKMARKS />
    </JOB:CONTENTBOOKMARKS>
  </JOB:BOOKMARKS>
</JOB:SETTINGS>
</JOB>
```



```
<JOB:CADCONVERSION />
<JOB:DOCUMENTVALIDATION />
  <JOB:EFTSSETTINGS />
<JOB:ERRORSETTINGS />
<JOB:FOOTERS>
  <JOB:FOOTER />
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  </JOB:OCRLANGUAGES>
  <JOB:OCRLOGSETTINGS />
</JOB:OCRSETTINGS>
<JOB:OVERLAYS>
  <JOB:OVERLAY />
  <JOB:OVERLAYCROP />
</JOB:OVERLAYS>
<JOB:PAGEIDENTIFICATION />
<JOB:PAGESTITCHING />
<JOB:PDFFORMFIELDS>
  <JOB:PDFFORMFIELD />
</JOB:PDFFORMFIELDS>
<JOB:PDFINFOSETTINGS>
  <JOB:PDFINFOFILES>
    <JOB:PDFINFOFILE />
  </JOB:PDFINFOFILES>
</JOB:PDFINFOSETTINGS>
```

```
<JOB:PDFSETTINGS>
  <JOB:ASSOCIATEDINDEX />
  <JOB:FONTEMBEDDING />
  <JOB:OPENSETTINGS />
  <JOB:OPTIMIZE />
  <JOB:PDFATTACHMENTS>
    <JOB:PDFATTACHMENT />
  </JOB:PDFATTACHMENTS>
  <JOB:PDFPOPUPNOTES />
  <JOB:PDFPREFLIGHT />
  <JOB:PDFSPLIT />
  <JOB:PDFVERSIONDOWNGRADE />
  <JOB:SECURITY />
  <JOB:SIGNATURE>
    <JOB:SIGNATUREAPPEARANCE />
    <JOB:SIGNATURECERTIFICATE />
    <JOB:SIGNATUREDATA />
    <JOB:SIGNATUREPROPERTIES />
    <JOB:SIGNATUREPROPERTIESSAFE />
  </JOB:SIGNATURE>
  <JOB:SIGNATUREFIELDS>
    <JOB:SIGNATUREFIELD />
  </JOB:SIGNATUREFIELDS>
  <JOB:XMPMETADATA />
</JOB:PDFSETTINGS>
<JOB:TEXTCONVERSION />
<JOB:TEXTSETTINGS>
  <JOB:TEXTSPLIT />
</JOB:TEXTSETTINGS>
<JOB:TOC>
  <JOB:TOCITEMS>
    <JOB:TOCITEM>
      <JOB:TOCITEMDESTINATION />
    </JOB:TOCITEM>
  </JOB:TOCITEMS>
  <JOB:TOCLEVELS>
    <JOB:TOCLEVEL />
  </JOB:TOCLEVELS>
  <JOB:TOCSTYLES />
</JOB:TOC>
<JOB:TRANSFORMATION>
  <JOB:PAGECONTENTSCALING />
  <JOB:PAGESCALING />
</JOB:TRANSFORMATION>
<JOB:WATERMARKS>
  <JOB:WATERMARK />
</JOB:WATERMARKS>
<JOB:XPSSETTINGS>
  <JOB:XPSMSEXCEL />
  <JOB:XPSMSPowerPOINT />
  <JOB:XPSMSWORD />
</JOB:XPSSETTINGS>
</JOB:SETTINGS>
</JOB>
<JOBTICKETTEMPLATES>
  <JOBTICKETTEMPLATE />
</JOBTICKETTEMPLATES>
</JOBS>
```

XML Job Ticket Processing

The various methods of defining references in XML Job Tickets:

Table 1 - XML Job Ticket Document Reference Methods

Reference Method	Description	Examples
Absolute Path	The complete document path and filename is provided.	C:\My Folder\My Doc.doc
UNC Path	The complete document path and filename is provided using Universal Naming Conventions (UNC).	\\My Server\My Folder\My Doc.doc

Tip: *XML Job Ticket files may be placed in the Express Input folder but the files referenced within the XML Job Ticket may be located anywhere on the network. This allows files to be processed without having to physically move the files to the input folder.*

The XML Job Ticket functionality is very flexible and can be used in many ways. For example, it can be used to add a cover page to each PDF created.

Tip: *Locate the cover page file outside of the Input folder and reference it using an Absolute path in the XML Job Ticket file.*

A second example is to use XML Job Ticket files to assemble multiple documents into a single PDF file. This file can then be emailed as a single attachment.

A third example is to use XML Job Ticket files to merge structured data (e.g. data from a database) with other documents.

Tip: *Write a program or script to extract the structured data and create a file (e.g. HTML, RTF, TXT,...) which is then merged with the other documents.*

When processing XML Job Ticket files, the Input File Handling selection only applies to the files in the Input folder and its subfolders. All files located outside the Input Folder are processed and left in the same location.

Tip: *The XML Job Ticket file should be created/copied after all files referenced within the XML Job Ticket file have been copied. This eliminates the possibility of processing a referenced file that has not been copied which results in a File Not Found error.*

Jobs (JOBS)

The JOBS element is the root element of the Job Ticket. It contains Express settings that control how the Job is processed.

Table 2 – Job Attributes

Name	Values	Description
JOBID	Text	The unique identifier for the XML Job Ticket.
MEASUREMENTSYSTEM	LocalMachine	Applies the current measurement setting of the computer. The Measurement Unit used in Express will be the following: Metric = cm, US = inches
	Defined	Applies the measurement setting specified in MEASUREMENTUNIT.
MEASUREMENTUNIT	Points pt Micrometers Millimeters mm Centimeters cm Inches in	Specifies the measurement unit to be used in the Job Ticket.

Input Documents (DOCINPUTS)

The DOCINPUTS element contains one DOCINPUT element for every unique file or Universal Resource Identifier (URI) to process. The exact filename must be specified or the XML Job Ticket will error upon conversion. The user can specify whether or not to download the URI locally. A FILENAME and FOLDER are required attributes and at least one DOCINPUT is required. The URI string identifies resources in the web such as documents, images, downloadable files, services, electronic mailboxes, and other resources. These resources are available under a variety of naming schemes and access methods such as HTTP, FTP, and Internet mail (e.g. For example, <http://www.adlibsoftware.com/testfile.doc>). Please refer to the table below for details.

Note: *If TOC or Inserts is enabled then the XML Job Ticket can be created with no DocInputs.*

Tip: *When using URI, you must set the FILENAME and FOLDER to "".*

Table 3 - Document Input Attributes

Name	Values	Description
NAME	Text	The Alias name to be used when referring to a particular DocInput. (e.g. Page ranges, DocReferences)
FILENAME	Filename	The Filename specified is used.
FOLDER	Folder	The Folder property delivers the PDF to the specified folder.
OPENPASSWORD	Text	Password required to open secure documents (Only for Microsoft Word and Excel).
URI	Text	The text name destination of a URI.
URIDOWNLOAD	Yes (Default) No	Determines whether to download the URI. For such files as ASP, XML, HTML, or other file formats that either stream, or require other files, it is recommended to set this value to No. For PDF files it is recommended that this value is set to yes.
URIPROXYSERVER	Text	Proxy Server required to access the URI.
URITIMEOUT	Numeric (Default = 60)	Time interval before Express times out a URI attempted connection.
BOOKMARK	Text	The text of the Heading to be used as a bookmark.
BOOKMARKLEVEL	Numeric	The level of the bookmark. How far deep the bookmark is embedded.

Output Documents (DOCOUTPUTS)

The DOCOUTPUTS element contains one DOCOUTPUT element for every document type (DOCTYPE) to be created. The DOCTYPE attribute of the DOCOUTPUT specifies what type of file the output is to be formatted to. If no DOCTYPE is declared, the default found in the DTD is selected, which by default is PDF. A FILENAME and FOLDER are required attributes and at least one DOCOUTPUT is required.

Table 4 – Document Output Attributes

Name	Values	Description
FILENAME	Filename	The Filename specifies the output document name.
FOLDER	Folder	The Folder property delivers the document to the specified folder.
DOCTYPE	<div>PDF (Default)</div> <div>IMAGE</div> <div>TXT</div> <div>ORIGINAL</div> <div>PDFINFO</div> <div>PDFATTACHMENT</div> <div>HTML</div> <div>RTF</div> <div>MSWORD</div> <div>XPS</div>	<div>Specifies which type of output the document will be converted to. If none is selected, PDF is chosen by default.</div> <div>A PDF document</div> <div>Format as defined in the Image settings</div> <div>A text document.</div> <div>Conversion does not occur, simply file movement.</div> <div>Simple text tokens, information in regards to the PDF generated.</div> <div>Extracts all attachments from the PDF to the specified folder. A filename is still required but will be overwritten by the attachment name.</div> <div>An HTML document.</div> <div>An RTF document.</div> <div>A Microsoft Word document.</div> <div>A Microsoft XPS document.</div>

Document Destinations (DESTINATION)

The Destination collection can also send the output to Multiple Folders including network folders, printers, E-mail or URI. The DESTINATION element is used to specify DESTFOLDERS, DESTPRINTERS, DESTEMAILS and DESTURIS and these elements define where the DOCOUTPUT(s) document(s) are to be delivered. If no folder path for the DOCOUTPUTS element is selected (a "" is required) then the only outputs that would be processed would be the ones defined in the DESTINATION element.

Destination Folders (DESTFOLDERS)

A copy of each DOCOUTPUT will be sent to the specified folder. The XML Job Ticket can contain multiple DESTFOLDER elements for multiple destinations (See **Figure 2 – Document Input, Document Output and Destination**).

Table 5 – Destination Folders Attributes

Name	Values	Description
FOLDER	Folder	The Folder property delivers the PDF to the specified folder.

Printer (DESTPRINTERS)

PDF documents can be spooled to the specified printer as shown in the sample XML excerpt (see **Figure 2 – Document Input, Document Output and Destination**). Adobe Acrobat must be installed on the computer.

Table 6 – Destination Printer Attributes

Name	Values	Description
PRINTER	Printer Name	The PRINTER property must be set to the printer name as shown in the “Printers and Faxes” folder accessed from the Control Panel.
PRINTPAGES	Numeric	1,2,3 Individual pages 1-12 Range of pages inclusive 23- Range to the end of the document Or any combination of the ranges.
NUMBEROFCOPIES	Numeric	Specifies the number of copies to print.

E-mail (DESTEMAILS)

E-mail messages may be specified as shown in the sample XML excerpt (See **Figure 2 – Document Input, Document Output and Destination**). Express creates the E-mail message, adds the PDF as an attachment and sends the message using the users E-mail information. A valid E-mail account must be configured and all required elements must be added to the XML Job Ticket. The following attributes are required; RECIPIENT, SENDER, SERVERNAME, USERNAME, PASSWORD. Refer to **Table 7 – Destination E-mail Attributes** for a description of the XML E-mail properties.

Table 7 – Destination E-mail Attributes

Name	Values	Description
RECIPIENT	E-mail Address	The E-mail address of the recipient where the E-mail message is sent. Multiple E-mail addresses may be specified by separating them with the semicolon (;) character.

Name	Values	Description
SENDER	E-mail Address	Express sends all E-mail messages using the default E-mail account of the E-mail client. It is possible to set the Sent From E-mail address to a different address by defining the Sender property. When using this property, you must specify the E-mail server using the SERVERNAME property. A copy of the E-mail message is sent to the address defined when the Sender property is used. This second E-mail is disabled by setting the COPYTOSENDER property to No.
CC	E-mail Address	The E-mail address where a Carbon Copy of the E-mail is sent. Multiple E-mail addresses may be specified by separating them with the semicolon (;) character.
BCC	E-mail Address	The E-mail address where a Blind Carbon Copy of the E-mail is sent. Multiple E-mail addresses may be specified by separating them with the semicolon (;) character.
SUBJECT	Text	The subject of the E-mail message.
MESSAGE	Text	The message for the E-mail. Multiple lines may be specified by inserting the double pipe () characters. The double pipes will be automatically removed and replaced with a carriage return line feed (CRLF) in the E-mail message. E-mail messages are limited to 1024 characters.
ATTACHMENTS	Filename	Additional attachments may be added to the E-mail message by using the ATTACHMENTS property. Multiple attachments may be specified by separating each path by a semicolon (e.g. C:\Temp\misc.pdf; C:\Temp\Intro.pdf).
COPYTOSENDER	Yes (Default) No	Enables/Disables sending a copy of the E-mail to the sender.
HTMLMESSAGE	Filename	The E-mail message may be defined using an HTML file rather than from the MESSAGE keyword. The HTML file will replace the complete message.

Delivering PDF files using an E-mail Outbox requires that an E-mail client software application (e.g. Microsoft Outlook, Microsoft Outlook Express) be installed and configured on the server where Express Server is running. If no E-mail client is selected, simple mail transfer protocol (SMTP), which is built into Express, can be used. Special characters must be used to separate lines as well as the addition of other special characters, please see **Appendix G - Special Characters** for details.

Destination Outbox Settings (DESTOUTBOXSETTINGS)

When using destination E-mails, the Outlook outbox can be used. This allows the user to take advantage of default settings such as signatures and other features found within Outlook (See **Figure 3 – Log Settings**).

Table 8 – Outbox Settings Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enable/Disable sending the DOCOUTPUT using the outbox in Microsoft Outlook.
USERNAME	Text	Specifies the Outlook email account user name.
PASSWORD	Text	Specifies the Outlook email account password.

Destination SMTP Settings (DESTSMTPSETTINGS)

When using destination E-mails, an SMTP server is required. If the user does not have an E-mail program, they can use the one built within Express, as long as a valid SMTP server is still available (See **Figure 3 – Log Settings**).

Table 9 – SMTP Settings Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enable/Disable sending the DOCOUTPUT using the SMTP email server.
SERVERNAME	Text	Specifies the SMTP Server name.
SERVERPORT	Numeric	Specifies the SMTP Server port.
USERNAME	Text	Specifies the SMTP Server user.
PASSWORD	Text	Specifies the SMTP Server user password.

Web (DESTURIS)

The outputted document can be uploaded as a Universal Resource Identifier (URI). This includes protocols such as FTP and HTTP. Multiple servers can be defined by creating multiple DESTURI elements (See **Figure 2 – Document Input, Document Output and Destination**).

Note: *The DESTFTPS collection has been expanded and changed to DESTURIS. To FTP your documents, simply create a DESTURI element and define "FTP" as the PROTOCOL attribute.*

Table 10 – Destination Web Attributes

Name	Values	Description
URI	Text	The full path of the URI, takes precedence over host/port/username/password combination. <scheme>://<user>:<password>@<host>:<port>/<url-path>;<params>?<query>#<fragment>
PROTOCOL	Default (Default) FTP HTTP HTTPS Gopher	Set the URI protocol type Default protocol File Transfer Protocol HyperText Transfer Protocol HyperText Transfer Protocol, Secure Gopher File Transfer
ACCESSTYPE	Default (Default) Direct NamedProxy	Sets the proxy behavior for this control's connections Default Access Type Direct Access Type A Named proxy Access Type
HOST	Text	Specifies the name of the URI Server.
PORT	Numeric (Default = 21)	Specifies the URI port.
FOLDER	Text	Specifies the folder on the URI Server where files are to be placed.
DATATYPE	Binary (Default) ASCII	Specifies the URI Transfer Method.
PROXYSERVER	Text	Name of the proxy server.
USERNAME	Text	Specifies the Username for logging into the URI Server.
PASSWORD	Text	Specifies the Password for logging into the URI Server.
REQUESTTIMEOUT	Numeric	Time interval before Express times out a URI attempted connection.

Figure 2 – Document Input, Document Output and Destination

```
<JOB:DOCINPUTS>
  <JOB:DOCINPUT FILENAME="Water on the Space Station.doc" FOLDER="C:\Adlib
    Express Job Tickets\Docs\" OPENPASSWORD="Adlib" />
  <JOB:DOCINPUT FILENAME="" FOLDER="" URI="http://www.yahoo.com"
    URIDOWNLOAD="No" />
</JOB:DOCINPUTS>

<JOB:DOCOUTPUTS>
  <JOB:DOCOUTPUT FILENAME="Multiple Documents with Hyperlinks
    Bookmarks.pdf" FOLDER="C:\Express Job Tickets\XML Job Tickets Output\"
    DOCTYPE="PDF">
  <JOB:DESTINATION>

  <JOB:DESTFOLDERS>
    <JOB:DESTFOLDER FOLDER="H:\Backup" />
  </JOB:DESTFOLDERS>

  <JOB:DESTPRINTERS>
    <JOB:DESTPRINTER PRINTER="HP LaserJet 4100 PCL 6" PRINTPAGES="All"
      NUMBEROFCOPIES="1" />
  </JOB:DESTPRINTERS>

  <JOB:DESTEMAILS>
  <JOB:DESTEMAIL RECIPIENT="john.doe@acme.com" SENDER="jane.smith@acme.com"
    CC="jane.doe@acme.com" BCC="john.smith@acme.com"
    SERVERNAME="mail.abc.com" SERVERPORT="25" USERNAME="jdoe"
    PASSWORD="abc242" SUBJECT="Interesting Information"
    MESSAGE="John,&gt;CR&lt;You will find this interesting. &gt;CR&lt;Jane"
    ATTACHMENTS="C:\Temp\misc.pdf;C:\Temp\Intro.pdf" COPYTOSENDER="Yes"
    HTMLMESSAGE="template.htm">
    <JOB:DESTOUTBOXSETTINGS ENABLED="Yes" USERNAME="test"
      PASSWORD="test1" />
    <JOB:DESTSMTTPSETTINGS ENABLED="Yes"
      SERVERNAME="test@adlibsoftware.com" SERVERPORT="25" USERNAME="test"
      PASSWORD="test1" />
  </JOB:DESTEMAIL>
</JOB:DESTEMAILS>

<JOB:DESTURIS>
  <JOB:DESTURI URI="ftp://test:test@www.adlibsoftware.com:21/test" />
  <JOB:DESTURI PROTOCOL="FTP" ACESSTYPE="Default"
    HOST="www.adlibsoftware.com" PORT="21" FOLDER="URI-Test"
    USERNAME="test" PASSWORD="test" />
  <JOB:DESTURI PROTOCOL="HTTP" ACESSTYPE="Default" HOST="http://test"
    PORT="80" FOLDER="test/" REQUESTTIMEOUT="60" />
</JOB:DESTURIS>

</JOB:DESTINATION>
</JOB:DOCOUTPUT>
</JOB:DOCOUTPUTS>
```

Document Reference (DOCREERENCE)

Document References provides the user the ability to add a collection of documents that are required by the XML Job Ticket.

Examples:

- DocInputs - support documents, such as image files that are associated to an HTML file.
- Inserts - documents that may be Inserted into the output file.

Table 11 – Document References Attributes

Name	Values	Description
DOCTEMPLATEMAPPATH	Text	Path to DocTemplate Map XML file. When the DOCREERENCE MODE is set to Internal, this file will resolve the location of the DOCREERENCE.

Table 12 – Document Reference Attributes

Name	Values	Description
NAME	Text	Alias for the DOCREERENCE.
MODE	Blank External Internal	A single blank page which uses the PAGEHEIGHT and PAGEWIDTH attributes to define its size. A document at the location defined by the PATH attribute. A document whose path is defined within the DocTemplate Map XML file.
PATH	Text	Contains the fully qualified path to the referenced file.
DOCINPUTNAME	Text	When the DOCREERENCE is a support file, this attribute contains the alias of the related DOCINPUT.
RELATIVEPATH	Text	Support files may be required to be at a relative location to the DOCINPUT (e.g. \support\images\logo.jpg)
DOCTEMPLATENAME	Text	When MODE is set to Internal this attribute contains the alias of the DOCREERENCE in the DocTemplate Map XML file.
PAGEHEIGHT	Text	When MODE is set to Blank this attribute specifies the page height of the DOCREERENCE.
PAGEWIDTH	Text	When MODE is set to Blank this attribute specifies the page width of the DOCREERENCE.

Note: PAGEHEIGHT and PAGEWIDTH only apply when the MODE is specified as Blank.

Insert (INSERT)

(Requires Print Publishing Add-on)

An Insert allows you to define different types of insert pages and/or printer commands at a specific location into the output PDF. An Insert Page is defined as a Tab or Slipsheet that is to be inserted into a specified location in the output PDF.

An Insert may consist the following:

Insert Page with Printer Command

Insert Page with no Printer Command

Printer Command

The Insert element defines where the Insert is to be located in the output PDF. The Insert Element refers to an Insert Style which defines the properties of the Insert, using the INSERTSTYLENAME attribute. The INSERTSTYLE refers to a DOCREFERENCE using the DOCREFERENCENAME attribute. The DOCREFERENCE defines the properties of the Page that is to be inserted. The Insert element also refers to a PRINTERCOMMAND using the PRINTERCOMMANDNAME attribute.

Table 13 – Inserts Attributes

Name	Values	Description
ENABLED	Yes No	Enable/Disable Inserts.
PRINTERMAKE	XeroxDocuTech	Specifies production printer model where document is to be printed.

Table 14 – Insert Attributes

Name	Values	Description
INSERTSTYLENAME	Text	Specifies which INSERTSTYLE to use.
PRINTERCOMMANDNAME	Text	Alias that links the INSERT to the printer command.
MEDIATYPEDETAILS	Text	Reserved for Future Use.
PAGE	Text	Specifies the page where the Insert is to be located.
TABTEXT	Text	Specifies the text that appears on the tab if the INSERT is a Tab Sheet.

Insert Form Field (INSERTFORMFIELD)

The INSERTFORMFIELD element contains the PDF Form name and the value to be applied. An Insert Page may contain multiple PDF Forms and this element provides the ability to apply a value to each individual PDF Form as desired.

Table 15 – Insert Form Field Attributes

Name	Values	Description
FIELD	Text	Assigns a text string to one field for a form. Multiple fields can be filled by defining each one individually.
VALUE	Text	Assigns a text string to one field for a form. Multiple fields can be filled by defining each one individually.

Insert Style (INSERTSTYLE)

The INSERTSTYLE element defines the properties of an Insert Page. Typically the INSERTSTYLE for a Slipsheet, for example, only needs to be defined once, but is referenced by many INSERT elements.

Table 16 – Insert Styles Attributes

Name	Values	Description
NAME	Text	The name of the Insert Style.
DOCREFERENCENAME	Text	Specifies the name of the DOCREERENCE to use for this Insert Style.
MEASUREMENTUNIT	Points pt Micrometers Millimeters mm Centimeters cm Inches in	The unit of measure for the PAGEHEIGHT and PAGEWIDTH.
PAGEHEIGHT	Text	Specifies the page height of the Insert.
PAGEWIDTH	Text	Specifies the page width of the Insert.

Note: MEASUREMENTUNIT, PAGEHEIGHT and PAGEWIDTH only apply when DOCREFERENCENAME is null.

Log Settings (LOGSETTINGS)

Logging can be used for easier error tracking; each job, defined by an XML Job Ticket can be given its own log file. If the same name is used the Express process log, it will be appended while the document log will be overwritten. The Process Log stores the date and time the file was processed. It also stores the processing status of the document, such as "Convert To PDF Successful", as well as the output path of the file. The Document Log tracks the processing of one document and is overwritten every time (See **Figure 3 – Log Settings**).

Table 17 - Log Settings Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enable/Disable the creation of the process and document logs.
DOCUMENTLOGENABLED	Yes (Default) No	Enables/Disables the creation of the Document Log
DOCUMENTLOGFOLDER	Path (Default = C:\Adlib Express\Error)	Contains the path to which the document log will be created/appended.
DOCUMENTLOGFILENAME	File Name (Default = Adlib Express Document Log.txt)	Specifies the name of the document log.
DOCUMENTLOGFORMAT	TXT (Default) XML	Specifies the format of the document log.
DOCUMENTLOGRETAINHISTORY	Yes No (Default)	Enables/Disables retaining the document log.
DOCUMENTLOGCOMPRESSTOZIP	Yes (Default) No	Enables/Disables zipping up any retained document logs.
PROCESSLOGENABLED	Yes (Default) No	Enables/Disables the creation of the Process Log
PROCESSLOGFOLDER	Path (Default = C:\Adlib Express\Error)	Contains the path to which the process log will be created/appended.
PROCESSLOGFILENAME	File Name (Default = Adlib Express Process Log.txt)	Specifies the name of the process log.
PROCESSLOGFORMAT	TXT (Default) XML	Specifies the format of the process log.

PROCESSLOGRETENTIONMODE	RetentionPeriod(Default) MaxFileSize	Specifies the retention mode of the process log.
PROCESSLOGMAXFILESIZE	Numeric (Default = 5)	Determines the maximum files size of the process log. (5-100 MB)
PROCESSLOGRETAINHISTORY	Yes No (Default)	Enables/Disables retaining the process log.
PROCESSLOGCOMPRESSTOZIP	Yes (Default) No	Enables/Disables zipping up any retained process logs.
RETENTIONPERIOD	Numeric (Default = 14)	Specifies the number of days in which the log files are retained. (1-30 days)

Note: When the log format is TXT, and Retain Process Log History is disabled, the Retention Period controls the period of days that are maintained in the text log. When the format is XML, the Retention Period will delete the current log and start a new one. When Retain History is enabled, the Retention Period controls the amount of days between the actual archive (backup/compress) of the log.

E-mail Notification (EMAILNOTIFICATION)

The document log can be sent out via e-mail for easier error tracking. Express creates the E-mail message, adds the document log file as an attachment and sends the message using the user's E-mail information. A valid E-mail account must be configured and all required elements must be added to the XML Job Ticket. The following attributes are required; RECIPIENT, SENDER, SERVERNAME, USERNAME, PASSWORD (see

Figure 3 – Log Settings).

Table 18 – E-Mail Notification Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enable/Disable E-Mail Notification of the document log file to the specified E-mail address.
EMAILTO	Text	E-Mail address of the recipient where the document log file is sent. Multiple E-Mail addresses may be specified by separating them with a semicolon (;) character.
EMAILCC	Text	The E-Mail address where a Carbon Copy of the E-Mail is sent. Multiple E-Mail addresses may be specified by separating them with a semicolon (;) character.
EMAILFROM	Text	E-mail address of the sender of the log.
EMAILSUBJECT	Text	The subject of the E-mail message.
EMAILMESSAGE	Text	The message for the E-mail. Multiple lines may be specified by inserting the double pipe () characters. The double pipes will be automatically removed and replaced with a carriage return line feed (CRLF) in the E-mail message. E-mail messages are limited to 1024 characters.

Delivering log files using an E-mail Outbox requires that an E-mail client software application (E.g. Microsoft Outlook, Microsoft Outlook Express, Lotus CC Mail, ...) be installed and configured on the server where Express Server is running. If no E-mail client is selected, simple mail transfer protocol (SMTP) which is built into Express can be used. Special characters must be used to separate lines as well as the addition of other special characters, please see **Appendix G - Special Characters** see for more information on the types of special characters.

Log Outbox Settings (LOGOUTBOXSETTINGS)

When using E-Mail Notification, the Outlook outbox can be used. This allows the user to take advantage of default settings such as signatures and other features found within Outlook (see

Figure 3 – Log Settings).

Table 19 – Log Outbox Settings Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enable/Disable sending the document log file using the outbox in Microsoft Outlook.
USERNAME	Text	Specifies the Outlook user name when using the outbox to send the message.
PASSWORD	Text	Specifies the Outlook user password when using the outbox to send the message.

Log SMTP Settings (LOGSMTPSETTINGS)

When using E-Mail Notification, an SMTP server is required. If the user does not have an E-mail program, they can use the one built within Express, as long as a valid SMTP server is still available (see

Figure 3 – Log Settings).

Table 20 – Log SMTP Settings Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enable/Disable sending the document log file using the SMTP E-mail server.
SERVERNAME	Text	Specifies the SMTP Server name when using SMTP to send the message.
SERVERPORT	Numeric	Specifies the SMTP Server port when using SMTP to send the message.
USERNAME	Text	Specifies the SMTP Server user name when using SMTP to send the message.
PASSWORD	Text	Specifies the SMTP Server user password when using SMTP to send the message.

URI Notification (URINOTIFICATION)

An XML file is created and sent out via URI (http server) for easier error tracking. In the XML file, the following information is found: File Name, Job ID, Date, Time, Result Code, and Description. Express will send the XML file to a web service using the POST method or simply upload the file using the PUT method. A valid URI string should contain the port number, username and password if needed (see

Figure 3 – Log Settings).

Table 21 – URI Notification Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enable/Disable URI Notification of the XML file to the specified URI (http server).
MODE	Text	Reserved for future use.
REQUESTTYPE	POST (Default) PUT	Determines which internet method the log file is to be sent as. Either to a web service (POST), or as a file (PUT). When using POST, you must specify a WEBMETHODPARAMETERNAME
URI	Text	URI of the recipient where the log is sent. <scheme>://<user>:<password>@<host>:<port>/<url-path>;<params>?<query>#<fragment>
WEBMETHODPARAMETERNAME	Text	Parameter name used when using a web service (POST request type only).

Figure 3 – Log Settings

```
<JOB:LOGSETTINGS ENABLED="Yes" DOCUMENTLOGENABLED="Yes"
DOCUMENTLOGFOLDER="C:\Adlib Express\Error" DOCUMENTLOGFILENAME="Adlib Express
Document Log.txt" DOCUMENTLOGRETAINHISTORY="No"
DOCUMENTLOGCOMPRESSTOZIP="Yes" PROCESSLOGENABLED="Yes"
PROCESSLOGFOLDER="C:\Adlib Express\Error" PROCESSLOGFILENAME="Adlib Express
Process Log.txt" PROCESSLOGMAXFILESIZE="5" PROCESSLOGRETAINHISTORY="No"
PROCESSLOGCOMPRESSTOZIP="Yes" RETENTIONPERIOD="14" >

  <JOB:EMAILNOTIFICATION ENABLED="Yes" EMAILTO="test@adlibsoftware.com"
  EMAILCC="test2@adlibsoftware.com"
  EMAILFROM="userguide@adlibsoftware.com" EMAILSUBJECT="Log Files"
  EMAILMESSAGE="Enclosed are your Express log files." >
  <JOB:LOGOUTBOXSETTINGS ENABLED="Yes" USERNAME="test" PASSWORD="test1" />
  <JOB:LOGSMTPSETTINGS ENABLED="Yes" SERVERNAME="test@adlibsoftware.com"
  SERVERPORT="25" USERNAME="test" PASSWORD="test1" />
  </JOB:EMAILNOTIFICATION>
  <JOB:URINOTIFICATION ENABLED="Yes" REQUESTTYPE="POST"
  WEBMETHODPARAMETERNAME="parameter"
  URI="http://localhost/ExpressService/Service1.asmx/ExpressResponse" />
</JOB:LOGSETTINGS>
```

Printer (**PRINTER**)

(Requires Print Publishing Add-on)

A printer contains a collection of printer commands to be used for a specific printer make. Together these commands are used to create a print file that can be used to print the PDF created by the XML Job Ticket to a production printer.

Table 22 – Printer Attributes

Name	Values	Description
MAKE	Text	Specifies the name of the printer.

Printer Commands (PRINTERCOMMANDS)

(Requires Print Publishing Add-on)

For each Insert that references a printer command, the associated printer command text will be appended to the file specified in OUTPUTPATH.

Table 23 – Printer Commands Attributes

Name	Values	Description
OUTPUTPATH	Text	Specifies the file path to save the Printer Commands.

Printer Command (PRINTERCOMMAND)

The Printer command may be referenced by an Insert. Each Printer Command will be added to the print file specified in the OUTPUTPATH.

Table 24 – Printer Command Attributes

Name	Values	Description
NAME	Text	Name of printer command.
TEXT	Text	Specifies a printer command for the Insert.

The following annotations may be included in the Printer Command Text.

- Page Number - &[Page]
- Page Width - &[PageWidth]
- Page Height - &[PageHeight]

Note, these annotations are evaluated and automatically replaced by the appropriate value when the Printer Command Text is inserted in the output file.

Scripts (SCRIPTS)

Scripts can be run before and/or after processing. These scripts are written in VBScript or JScript. They can contain anything from the editing of a file to simply moving them, with the option of doing this before the input files are processed and/or after the final output is processed. Multiple script elements can be added to the XML Job Ticket allowing for a variety of scripts to be executed as required. Contained in the Scripts element is as many SCRIPT elements as needed, however to turn off the entire collection, the SCRIPTS element must have ENABLED="No". Please refer to the tables below for details.

Table 25 – Scripts Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enable/Disable Script processing.

Table 26 – Script Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enable/Disable the Script.
EXECUTESCRIPTONERROR	Yes (Default) No	Enable/Disable the execution of the script in the case of a processing error. Note: Currently, this is only supported when the MODE is set to "PostJob".
MODE	PreJob (Default) PostJob	Specifies which point in processing to execute the script. The script is executed before processing occurs. The script is executed after processing is completed.
PATH	Yes No (Default)	Specifies the path to the script to execute. Note: This can include parameters to be passed to the script. If parameters are present in the SCRIPTARGUMENTS, they will be appended to the end of the PATH attribute.
POSTJOBSCRIPTMODE	BeforeFilesMoved (Default) AfterFilesMoved	Specifies when to execute the Post Job Script. The script is executed before DocInputs and Job Ticket are moved. The script is executed after DocInputs and Job Ticket are moved.

Name	Values	Description
STREAM	Text	<p>A Base64 encoded stream. This stream is a representation of a zip file containing a script and any required resource/support files needed by the script.</p> <p>Note: The STREAM will be decoded to the work folder, where the zip file and its contents will be unzipped.</p> <p>The STREAM must be Base64 representation of a zip file. If it is not a zip file, no script will be executed.</p>
STREAMSCRIPTFILENAME	Text	<p>The name of the main script file that is encoded in the STREAM attribute. This must contain the proper extension, so the script can be executed properly.</p> <p>Note: The script file specified by STREAMSCRIPTFILENAME must be contained in the root of the zip file, not in a subfolder.</p>

Note: If multiple scripts are defined, they will be executed in the order that they appear in the XML Job Ticket.

If the STREAM attribute is present, as well as the PATH attribute, the STREAM attribute will be used.

Script Argument (SCRIPTARGUMENT)

The SCRIPTARGUMENT element defines the value of a parameter that is to be passed as an argument to the script when executing the script.

Table 27 – Script Arguments Attributes

Name	Values	Description
VALUE	Text	The parameter that will be passed as an argument to the script.

Note: If multiple SCRIPTARGUMENT elements are defined, they will be appended at the end of the script in the order that they appear in the XML Job Ticket.

Express has a number to pre-defined parameters that may be passed to a script as arguments. The table below (See **Table 28 – Script Parameters**) describes these parameters.

Table 28 – Script Parameters

Name	Description
&[InputFolder]	The fully qualified path to the Input folder.
&[OutputFolder]	The fully qualified path to the Output folder.
&[DestinationFolder]	The fully qualified path to the Destination folder.
&[PDFFolder]	The fully qualified path to the PDF folder.
&[TextFolder]	The fully qualified path to the Text folder.
&[ImageFolder]	The fully qualified path to the Image folder.
&[ErrorFolder]	The fully qualified path to the Error folder.
&[SourceFile]	The fully qualified path to the source file. (the input file)
&[ProcessedFile]	The fully qualified path to the Processed file. (the output file)

Figure 4 – Scripts

```
<JOB:SCRIPTS ENABLED="Yes">
<JOB:SCRIPT ENABLED="Yes" MODE="PostJob"
PATH="C:\Adlib Express\Scripts\Script.vbs &[ProcessedFile]"
POSTJOBSRIPTMODE="BeforeFilesMoved" POSTDOCUMENTSCRIPTONERROR="Yes" >
<JOB:SCRIPTARGUMENTS>
<JOB:SCRIPTARGUMENT VALUE="&[InputFolder]" />
</JOB:SCRIPTARGUMENTS>
</JOB:SCRIPT>
</JOB:SCRIPTS>
```

Settings (SETTINGS)

Within the settings element lies the various options to modify or customize the output as desired by the user.

Table 29 – Settings Attributes

Name	Values	Description
MERGE	Yes (Default) No	Enable/Disable whether the collection of DocInputs is merged or not.
MERGEBLANKPAGES	Yes No (Default)	Enables the addition of a blank page at the end of each document when the document contains an odd number of pages.

Figure 5 – Settings

```
<JOB:SETTINGS MERGE="Yes" />
```

Archive Settings (ARCHIVESETTINGS)

This feature allows users to create a sub folder within the archive file when the ARCHIVEMODE attribute is defined as ZIP and the ARCHIVEFILENAME attribute is defined for the DOCOUTPUT element.

Table 30 – Archive Settings Attributes

Name	Values	Description
SUBFOLDERNAME	Text	Name of the sub folder to be created in the archive file.

Bookmarks (BOOKMARKS)

The Bookmarks element allows users to create bookmarks or to define their own custom bookmarks. The CREATEDOCUMENTBOOKMARKS adds a bookmark in the PDF for each file specified in the XML job ticket. By default, the filenames referenced in the XML Job Ticket file are used as the Bookmark name. The Bookmark destination is set to the first page of the document.

The EXPANDEDBOOKMARKLEVELMODE setting specifies how bookmarks are to appear in the PDF when it is first opened. The EXPANDEDBOOKMARKLEVELMODE setting may be defined as All, Defined or None. The setting All will set all Bookmarks to be expanded. Defined enables the Level setting that will open all bookmarks to that value. None sets all Bookmarks to be closed.

The CONTENTBOOKMARKS automatically creates Bookmarks in the PDF for Microsoft Word and Excel. All styles defined in Microsoft Word can be bookmarked in the PDF. All heading (headings 1 to 9) styles are automatically bookmarked by default.

Each tab contained in a Microsoft Excel Worksheet is automatically bookmarked in the PDF.

This Bookmark feature is supported for the following native applications:

Microsoft Office 2003 (Word, Excel)
Microsoft Office 2002 (Word, Excel)
Microsoft Office 2000 (Word, Excel)
Microsoft Office 97 (Word, Excel)

Tip: *The associated Native Application must be installed and the **Convert Using Native Applications Support** must be selected in Express for the Bookmarks to be added to the PDF.*

Tip: *Bookmark remapping when splitting/merging and bookmark preservation is a part of the Advanced Publishing add-on, please contact sales (**Appendix I - Contact Adlib**) if you wish to purchase the Advanced Publishing add-on.*

See **Figure 6 – Bookmarks** for a complete example including custom bookmarks.

Table 31 - Bookmarks Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enables/Disables the creation of bookmarks.
CREATEDOCUMENTBOOKMARKS	Yes (Default) No	Enables/Disables the creation of document bookmarks.
DOCUMENTBOOKMARKTEXTMODE	Defined DocumentFilename (Default) DocumentBaseFilename DocumentTitle	Specifies the format of a document bookmark. The Defined option requires the user to define the BOOKMARK attribute in DOCINPUT otherwise the document bookmark will

Name	Values	Description
		appear blank.
DOCUMENTBOOKMARKERRORTEXT MODE	NoDocumentBookmark DocumentBookmarkText DocumentBookmarkErrorText	If the DocInput fails to render no document bookmark will be created. If the DocInput fails to render the document bookmark will still be created. If the DocInput fails to render the document bookmark will contain specific text that is defined in the DOCUMENTBOOKMARKER RORTEXT attribute.
DOCUMENTBOOKMARKERRORTEXT	Text	Specifies the text that will be applied for the document bookmark upon error. This attribute requires the DOCUMENTBOOKMARKER RORTEXTMODE value to be set to DocumentBookmarkErrorText .
EXPANDEDBOOKMARKLEVELMODE	All (Default) Defined None	Specifies how the bookmark are expanded.
EXPANDEDBOOKMARKLEVEL	Numeric	Specifies the expansion level of all bookmarks.
MAXLEVEL	Numeric (Default = 0)	Specifies the maximum level of all bookmarks.

Bookmark (BOOKMARK)

The Bookmark element allows users to create their own custom Bookmarks.

Table 32 – Bookmark Attributes

Name	Values	Description
CREATEDOCUMENTBOOKMARK	Yes (Default) No	Enables/Disables the creation of custom document bookmarks.
DOCUMENTBOOKMARKTEXTMODE	Defined DocumentFilename (Default) DocumentBaseFilename DocumentTitle	Specifies the name of the bookmark.
LEVEL	Numeric (Default = 1)	Specifies what level the custom bookmark is placed on.
TEXT	Text	Specifies the text of the custom bookmark if Defined is used for DOCUMENTBOOKMARKTEXTMODE

Bookmark Destination (BOOKMARKDESTINATION)

The Bookmark Destination element allows the user to specify where the bookmark links to, which page number and in what area.

Table 33 – Bookmark Destination Attributes

Name	Values	Description
ADDRESSTYPE	Web (Default) Email Internal File Null	Specifies the type of bookmark destination.
ADDRESS	Text	Specifies the bookmark destination. Tip: Use PAGENUMBER to specify the address when ADDRESSTYPE = "Internal"
PAGENUMBER	Text	Specifies which page the link will refer to. When ADDRESSTYPE = "Internal", it is possible to set the PAGENUMBER to the DOCINPUT NAME (Doc1[page number]).
PAGEX	Numeric ¹	X coordinate on the page of the destination file where the bookmark directs to. (Starts from bottom left)
PAGEY	Numeric ¹	Y coordinate on the page of the destination file where the bookmark directs to. (Starts from bottom left)

1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Content Bookmarks (CONTENTBOOKMARKS)

The Content Bookmarks element determines which content bookmarks are to be created within Microsoft Excel, Word or existing bookmarks found in PDF files (See **Figure 6 – Bookmarks**).

Microsoft Excel Bookmarks (MSEXCELBOOKMARKS)

The Microsoft Excel Bookmarks element determines if content bookmarks are created for Microsoft Excel documents.

Table 34 – Microsoft Excel Bookmarks Attributes

Name	Values	Description
CREATEBOOKMARKS	Yes No (Default)	Enables/Disables the creation of content bookmarks for Microsoft Excel files.

Microsoft Word Bookmarks (MSWORDBOOKMARKS)

The Microsoft Word Bookmarks element determines if content bookmarks are created for Microsoft Word documents and which styles are used when creating the bookmarks.

Table 35 – Microsoft Word Bookmarks Attributes

Name	Values	Description
CREATEBOOKMARKS	Yes No (Default)	Enables/Disables the creation of content bookmarks for Microsoft Word files.
CREATEBOOKMARKMODE	AutomaticStylesAndLevels DefinedStylesAndLevels TCFields	Bookmarks are generated automatically based on the headings in the document. Bookmarks are generated based on specifically defined headings in the Job Ticket Bookmarks are generated by analyzing the TC (Table of Contents) Fields in the Word document.
BOOKMARKDESTINATION	ExactPosition Page PageTopBottom	The bookmark will navigate to the exact position on the destination page. The bookmark navigates to the page. The bookmark will navigate to the top or the bottom of the page depending on its relative position.
INCLUDESECTIONNUMBERING	Yes No (Default)	Enables/Disables the inclusion of section numbering in the bookmark text (as it appears in the original document).
ORPHANBOOKMARKMODE	AdjustLevelToFit (Default) CreateParentBookmark RemoveBookmark	Bookmarks are adjusted so that the levels naturally cascade. Parent bookmarks are created to fill the empty spaces. Remove the bookmark entirely from the generated collection.
PAGEBOTTOMOFFSET	Text	Specifies an offset for the bookmark from the bottom of the page.

Name	Values	Description
PAGETOPOFFSET	Text	Specifies an offset for the bookmark from the top of the page.
PARENTBOOKMARKTEXT	Text	<p>Specifies the text applied to parent bookmarks that are created to fill empty spaces.</p> <p>This attribute requires the ORPHANBOOKMARKMODE value to be set to CreateParentBookmark.</p>

Microsoft Word Styles (MSWORDSTYLES)

All heading (headings 1 to 9) styles are automatically bookmarked by default. The user can define the default Word heading styles (Heading 1 to 9) or define custom heading styles used / created in the Word document being processed by creating a MSWORDSTYLE element and specifying a specific style. The user may define the bookmark level for each style by specifying the level (1, 2, 3, ...) desired. If one style is defined, then all other styles must be defined or the content bookmarks for any undefined styles will not be created.

Table 36 – Microsoft Word Style Attributes

Name	Values	Description
STYLE	Text	Specifies which Microsoft Word Style to use for content bookmarks
LEVEL	Numeric	Specifies which bookmark level this specific style will be on.
GROUPNAME	Text	Specifies the MSWORDBOOKMARKGROUP that this style is to be associated with.

Microsoft Word Bookmark Groups (MSWORDBOOKMARKGROUPS)

Used to define groupings for bookmarks created from MS Word documents. Bookmark groups will appear in the order in which they are defined. Bookmark styles which are not given a GROUPNAME will appear after all defined groups.

Table 37 – Microsoft Word Bookmark Groups

Name	Values	Description
NAME	Text	Name of the bookmark group. This is used by other Job Ticket elements to reference this group. (e.g. MSWORDSTYLES)
PARENTBOOKMARKTEXT	Text	Text used for the bookmark containing all the child bookmarks of this group.

Microsoft Word Sequence Fields (MSWORDSEQFIELDS)

The MS Word Sequence Fields element is used to specify if bookmarks are created based on MS Word Sequence fields.

Table 38 – Microsoft Word Sequence Fields

Name	Values	Description
LABEL	Text	Type of MSWord sequence field to create bookmarks for (e.g. Figure, Table, Equation)
LEVEL	Text	Bookmark level to assign to this sequence field type.
GROUPNAME	Text	Specifies the MSWORDBOOKMARKGROUP that this sequence field is to be associated with.

PDF Bookmarks (PDFBOOKMARKS)

The PDF Bookmarks element determines if existing bookmarks from an input PDF are to be preserved in the final PDF document.

Table 39 – PDF Bookmarks Attributes

Name	Values	Description
RETAINEXISTINGBOOKMARKS	Yes (Default) No	Enables/Disables preservation of bookmarks for PDF files.

Figure 6 – Bookmarks

```
<JOB:BOOKMARKS ENABLED="Yes" CREATEDOCUMENTBOOKMARKS="Yes"
DOCUMENTBOOKMARKTEXTMODE="DocumentFilename" EXPANDEDBOOKMARKLEVELMODE="All"
EXPANDEDBOOKMARKLEVEL="4" MAXLEVEL="4">
  <JOB:BOOKMARK CONTENTBOOKMARKS="Yes" CREATEDOCUMENTBOOKMARK="Yes"
  DOCUMENTBOOKMARKTEXTMODE="DocumentFilename" LEVEL="1" TEXT="Custom
  Bookmark">
    <JOB:BOOKMARKDESTINATION ADDRESS="C:\Adlib Express\Input\ULTIMATE JOB
    TICKETS\FILES\INPUTS\Hyperlink test document.htm" ADDRESSTYPE="File"
    PAGENUMBER="0" PAGEX="0" PAGEY="0" />
  </JOB:BOOKMARK>
  <JOB:BOOKMARK CONTENTBOOKMARKS="Yes" CREATEDOCUMENTBOOKMARK="Yes"
  DOCUMENTBOOKMARKTEXTMODE="DocumentFilename" LEVEL="1" TEXT="Custom
  Bookmark">
    <JOB:BOOKMARKDESTINATION ADDRESS="http://www.google.ca"
    ADDRESSTYPE="Web" PAGENUMBER="0" PAGEX="0" PAGEY="0" />
  </JOB:BOOKMARK>
</JOB:CONTENTBOOKMARKS>
  <JOB:MSEXCELBOOKMARKS CREATEBOOKMARKS="Yes" />
  <JOB:MSWORDBOOKMARKS CREATEBOOKMARKS="Yes">
    <JOB:MSWORDSTYLES>
      <JOB:MSWORDSTYLE STYLE="Heading 1" LEVEL="1" />
      <JOB:MSWORDSTYLE STYLE="Heading 2" LEVEL="2" />
      <JOB:MSWORDSTYLE STYLE="Heading 3" LEVEL="3" />
      <JOB:MSWORDSTYLE STYLE="Custom" LEVEL="4" />
    </JOB:MSWORDSTYLES>
  </JOB:MSWORDBOOKMARKS>
  <JOB:PDFBOOKMARKS RETAINEXISTINGBOOKMARKS="No" />
</JOB:CONTENTBOOKMARKS>
</JOB:BOOKMARKS>
```

Computer Aided Design (CADCONVERSION)

The Computer Aided Design (CAD) element allows users to define how CAD files are processed. All CAD files, except HPGL files are converted to PDF using a native application.

Tip: AutoVue, Myriad or VoloView are acceptable software applications for converting CAD documents to PDF via Native Application support.

Table 40 – Computer Aided Design Attributes

Name	Values	Description
HPGLNATIVEAPPLICATION	Yes (Default) No	Use Native Application to convert HPGL documents. This determines whether to use the application found on the system or the one built into Express.
MONOCHROME	Yes No (Default)	Enables/Disables conversion of CAD documents to monochrome.
PAGESIZELANDSCAPE	Letter Legal Tabloid A Size B Size (Default) C Size D Size E Size F Size A0 A1 A2 A3 A4 A5	Sets the page size on which landscape oriented CAD drawings are converted.
PAGESIZEPORTRAIT	Letter (Default) Legal Tabloid A Size B Size C Size D Size E Size F Size A0 A1 A2 A3 A4 A5	Sets the page size on which portrait oriented CAD drawings are converted.
MARGINVERTICAL	Numeric ¹	Specifies the vertical margin for CAD documents.
MARGINHORIZONTAL	Numeric ¹	Specifies the horizontal margin for CAD documents.

Name	Values	Description
MARGIN	Yes (Default) No	Enables/Disables a margin for the CAD document.
ACTUALPAGESIZE	Yes No (Default)	Enables/Disables the use of the original page size of the CAD document.
PENWIDTHSETTINGSPATH	Path	<i>Future Implementation</i>

- 1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Figure 7 – CAD Conversion

```
<JOB:CADCONVERSION HPGLNATIVEAPPLICATION="No" MONOCHROME="No"
PAGESIZELANDSCAPE="BSize" PAGESIZEPORTRAIT="ASize" MARGINVERTICAL="0.5"
MARGINHORIZONTAL="0.5" MARGIN="Yes" />
```


Document Validation (DOCUMENTVALIDATION)

Express can validate documents for missing resources (e.g. images, objects,) and fonts, as well as pagination when converting using native application support. Please note that Document Validation only applies to Microsoft Word 97 through 2003.

The Pagination Validation test checks if the last word on each page of the PDF and document match. The user can set the Pagination Error Threshold to the percentage of mismatched pages for the complete document. A Pagination Error Threshold of 5% will error the document if 5 or more pages of a 100 page document do not match.

All documents are checked for each validation test selected when processing documents. Any validation test that fails is logged. All missing fonts in the document and all pages that fail validation, until the Threshold is reached, are logged. The PDF is always created even when some validation tests fail. The user has the ability to define the File Handling for each test.

Table 41 – Document Validation Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables whether documents are to be validated.
CANCELONMISSINGRESOURCES	Yes No (Default)	Cancels document processing if resources such as images are missing from the document.
MISSINGRESOURCESFILEHANDLING	DeleteFile MoveFileToErrorFolder (Default) MoveFileToOutputFolder None	Controls how files are handled if there are missing resources. Deletes the PDF document and moves the input document to the Error folder. Moves the PDF and the input document to the Error Folder. Moves the PDF as specified by the PDF File Handling. Moves the input document as specified by the Input File Handling. Do nothing; leave the file where it is.
CANCELONMISSINGFONTS	Yes No (Default)	Cancels document processing if fonts are missing from the document.
MISSINGFONTSFILEHANDLING	DeleteFile	Controls how files are handling if there are missing fonts. Deletes the PDF document and moves the input document to the

Name	Values	Description
	<p>MoveFileToErrorFolder (Default)</p> <p>MoveFileToOutputFolder</p> <p>None</p>	<p>Error folder.</p> <p>Moves the PDF and the input document to the Error Folder.</p> <p>Moves the PDF as specified by the PDF File Handling. Moves the input document as specified by the Input File Handling.</p> <p>Do nothing; leave the file where it is.</p>
CANCELONPAGINATIONERROR	<p>Yes</p> <p>No (Default)</p>	<p>Cancels document processing if Pagination Errors are found.</p>
PAGINATIONERRORTHRESHOLD	Numeric (Default = 5)	<p>The user can define the Pagination Error Threshold to define the percentage of mismatched pages for the complete document. A Pagination Error Threshold of 5% will error the document if 5 or more pages of a 100 page document do not match.</p>
PAGINATIONERRORFILEHANDLING	<p>DeleteFile</p> <p>MoveFileToErrorFolder (Default)</p> <p>MoveFileToOutputFolder</p> <p>None</p>	<p>Controls how files are handled if there are Pagination Errors.</p> <p>Deletes the PDF document and moves the input document to the Error Folder.</p> <p>Moves the PDF as specified by the PDF File Handling. Moves the input document as specified by the Input File Handling.</p> <p>Moves the PDF and the input document to the Error Folder.</p> <p>Do nothing; leave the file where it is.</p>
CHECKFORUNSUPPORTEDBOOKMARKFONT	<p>No (Default)</p> <p>Yes</p>	<p>When creating content bookmarks, check to see if the associated font is unsupported.</p> <p>Note: Currently, the only font supported by this feature is Symbol.</p>
UNSUPPORTEDBOOKMARKFONTFILEHANDLING		<p>Controls how files are handled if an unsupported font is encountered.</p>

Name	Values	Description
	DeleteFile	Deletes the PDF document and moves the input document to the Error Folder.
	MoveFileToErrorFolder (Default)	Moves the PDF and the input document to the Error Folder.
	MoveFileToOutputFolder	Moves the PDF to the output folder. Moves the input document as specified by the Input File Handling.
	None	Do nothing; leave the file where it is.

Figure 8 – Document Validation

```
<JOB:DOCUMENTVALIDATION ENABLED="Yes" CANCELONMISSINGRESOURCES="Yes"
MISSINGRESOURCESFILEHANDLING="MoveFileToErrorFolder"
CANCELONMISSINGFONTS="Yes" MISSINGFONTSFILEHANDLING="MoveFileToErrorFolder"
CANCELONPAGINATIONERROR="Yes" PAGINATIONERRORTHRESHOLD="5"
PAGINATIONERRORFILEHANDLING="MoveFileToErrorFolder"
CHECKFORUNSUPPORTEDBOOKMARKFONT="Yes"
UNSUPPORTEDBOOKMARKFONTFILEHANDLING="None"/>
```

EFTS Settings (EFTSETTINGS)

(Extended File Type Support)

Table 42 – EFTS Settings Attributes

Name	Values	Description
SUPPORTEDFILETYPES	Text	<p>Specifies which file types are to be processed using the Extended File Type support Add-on. Multiple file types are to be specified using a pipe delimited list (DOC XML PPT).</p> <p>Note: Please refer to <i>Appendix D – Supported File Types</i> in the Express User Guide for a complete list of all the supported file extensions.</p>

Table 43 – EFTS Supported File Types

File Type	Extension
Microsoft Word	DOC, DOT
Microsoft Word (Rich Text)	RTF
Microsoft Excel	XLS, XLT
Microsoft PowerPoint	PPT, POT, PPS
Joint Photographic Experts Group	JPG
Bitmap	BMP
Hypertext Markup Language	HTML, HTM, MHT
Hewlett Packard Graphics Language	HPGL
Corel Clipart format	CMX
Corel Draw	CDR
Corel/Novell WordPerfect	WPD, WP5
Microsoft Visio	VSD
Microsoft Project (Text only)	MPX
Microsoft Outlook Message	MSG

Error Settings (ERRORSETTINGS)

Error Settings determine what happens to a job in the event of a missing file or if a specific conversion has failed. This includes converting to PDF, Image, Text or OCR'ing the document. These settings allow the user to control what happens if one of these cases is true.

Table 44 – Error Settings Attributes

Name	Values	Description
CANCELJOBON0BYTEFILE	Yes (Default) No	Enable/Disable whether the job is cancelled if a 0 Byte DocInput file is encountered.
CANCELJOBONCONVERSIONERROR	Yes (Default) No	Enable/Disable whether the job is cancelled if a conversion error occurs.
CANCELJOBONPDFSECURITY	Yes (Default) No	Enable/Disable whether the job is cancelled if a PDF DocInput with PDF Security preventing conversion is encountered.
CANCELJOBONMISSINGDOCINPUT	Yes (Default) No	Enable/Disable whether the job is cancelled if a DocInput is missing.
CANCELJOBONEXISTINGDOCOUTPUT	Yes No (Default)	Enable/Disable whether the job is cancelled if a DocOutput already exists in the specified location.
ERRORDOCREFERENCENAME	Text	Specifies an alias to a DOCREFERENCE in the Job Ticket

Figure 9 – Error Settings

```
<JOB:ERRORSETTINGS CANCELJOBONCONVERSIONERROR="Yes"
CANCELJOBONMISSINGINPUT="Yes" />
```

Headers/Footers (HEADERS/FOOTERS)

XML Job Tickets may be used to add branding information in the form of headers and footers to documents being processed (See **Table 46 – Header/Footer**).

Header and footer text can be applied in the Left, Center and Right justification of each PDF page. Multiple line headers and footers are defined by inserting a <CR> string into the text string. These characters will be automatically removed and replaced with a carriage return line feed (CRLF) when the document is processed. Multiple header or multiple footer elements can be added to the XML Job Ticket allowing for a variety of headers or footers as desired. Contained in the HEADERS or FOOTERS element is as many HEADER or FOOTER elements as needed, however to turn off the entire collection, the HEADERS or FOOTERS element must have its ENABLED attribute defined as "No" (**Figure 10 - Footers and Headers**).

The following annotations may be included in the Header and Footer Text.

- Page Number - &[Page]
- Total Number of Pages - &[Pages]
- Date - &[Date]
- Time - &[Time]
- Document Path - &[Path]
- Document File Name - &[File]
- Page ID - &[PageID]
- Full Path - &[FullPath]
- Error - &[Error]

Note, these annotations are evaluated and automatically replaced by the appropriate value when the document is processed. Also, the [PageID] is an annotation for Page Identification (refer to

Page Identification (PAGEIDENTIFICATION) for more details).

Table 45 – Headers/Footers Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enables the entire collection of headers or footers.
PRIORITY	1,2,3,4	Specifies the order that certain publishing features will be applied. These features are Headers, Footers, Overlays, and Watermarks. 1 is the feature that will be applied first, 4 being the feature applied last.

Table 46 – Header/Footer Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enables/Disables whether header or footer elements are to be applied.
FONTNAME	Helvetica (Default) Helvetica-Bold Helvetica-Oblique Times-Roman Times-Italic Times-Bold Courier Courier-Oblique Courier-Bold Symbol ZapfDingbats	Name of the font for the header/footer. Helvetica is the default font if none is specified.
FONTNAMEEXTENDED	Text	The Font Name of the font which is not a standard PDF font. This font must exist on the system. For example: Georgia Georgia Bold Georgia Italic Georgia Bold Italic Tip: Look in the Windows font folder for valid font names.
FONTSIZE	1-4096 (Default = 10)	Font size for the header/footer.
FONTCOLOR	Numeric ¹ (Default = 6447714)	BGR value for the Color of the header/footer text. You can retrieve the BGR values from the header/footer settings screen. Alternatively, you can use the RGB function from programming applications such as Microsoft Visual Basic and Microsoft Visual C++ to convert the three RGB

Name	Values	Description
		values to a single Color value (e.g. RGB(247, 198, 0) = 50935) using the formula 0.3 Red + 0.59 Green + 0.11 Blue.
FONTEXTENDEDDBOLD	Yes No (Default)	<i>Future Implementation</i>
FONTEXTENDEDITALIC	Yes No (Default)	<i>Future Implementation</i>
APPLYAFTERTRANSFORMATION	Yes (Default) No	Specifies whether or not the header/footer will be applied after Transformation.
LAYER	Automatic (Default) Foreground Background	Specifies the layer where the header/footer will be placed. When Automatic is selected, Express inserts the header/footer on the layer (Foreground or Background) that will make it visible.
ORIENTATION	Page Text	Specifies the orientation of the header/footer by positioning it according to the PDF page or in alignment with the text on that page.
MARGINLEFT	Numeric ¹ (Default = 0.25)	Margin for the TEXTLEFT text string.
MARGINRIGHT	Numeric ¹ (Default = 0.25)	Margin for the TEXTRIGHT text string.
MARGINVERTICAL	Numeric ¹ (Default = 0.25)	Vertical margin for the header/footer.
OPACITY	1 - 100 (Default = 100)	Specifies the opacity/transparency level of the header/footer.
TEXTLEFT	Text	Defines a header/footer that is left justified.
TEXTCENTER	Text	Defines a header/footer that is centered.
TEXTRIGHT	Text	Defines a header/footer that is right justified.
PAGES	1, 3 5-7 10- First Even Odd Last All (Default)	Specifies the pages in the document to add the Header or Footer to. Individual pages Range of pages inclusive Range to the end of the document First page only Even pages Odd pages Last page All pages

Name	Values	Description
	DOCN	Applies Header/Footer to the N th document.
	DOCN-	Applies Header/Footer from the N th document to the end of the final document.
	TOC	Applies Header/Footer to the TOC report.
	IDX	Applies Header/Footer to the INDEX.
	DocInputAlias[1-]	Applies Header/Footer to the page range specified by the DocInput Alias.
	Error	Applies Header/Footer to only the pages that are error related.
PAGENUMBERINGMODE	MergedDocument (Default)	Specifies the page numbering mode for the document. Numbers the document sequentially as a single document (Page of Total Pages) but uses page numbering prior to extracting selected pages.
	ExtractedPages	Numbers the document sequentially as a single document (Page of Total Pages) but uses page numbering after extracting selected pages. Note: MergedDocument and ExtractedPages modes result in identically numbered documents if all pages are used.
	OriginalDocuments	Numbers the pages as if they were individual documents (Individual Document Page of Total Individual Document Pages).

- 1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Table 47 - Page Numbering Mode

Document Page Number	MergedDocument	ExtractedPages	OriginalDocuments
Doc 1 - Page 1 of 3	1 of 8	1 of 7	1 of 3
Doc 1 - Page 2 of 3 Omitted			
Doc 1 - Page 3 of 3	3 of 8	2 of 7	3 of 3
Doc 2 - Page 1 of 2	4 of 8	3 of 7	1 of 2
Doc 2 - Page 2 of 2	5 of 8	4 of 7	2 of 2
Doc 3 - Page 1 of 3	6 of 8	5 of 7	1 of 3
Doc 3 - Page 2 of 3	7 of 8	6 of 7	2 of 3
Doc 3 - Page 3 of 3	8 of 8	7 of 7	3 of 3

Figure 10 - Footers and Headers

```

<JOB:FOOTERS ENABLED="Yes">

<JOB:FOOTER ENABLED="Yes" FONTNAME="Helvetica-Bold" FONTSIZE="10"
FONTCOLOR="0" LAYER="Foreground" MARGINLEFT="0.25" MARGINRIGHT="0.25"
MARGINVERTICAL="0.5" OPACITY="75" ORIENTATION="Page" TEXTCENTER="&[Date]
- &[Time]" TEXTLEFT="&[File]<CR>&[PageID]"
TEXTRIGHT="&[Page] of &[Pages]" PAGES="Odd"
PAGENUMBERINGMODE="MergedDocument" />

<JOB:FOOTER ENABLED="Yes" TEXTLEFT="Different footers on specified pages"
PAGES="Even" OPACITY="70" ORIENTATION="Text" />

</JOB:FOOTERS>

<JOB:HEADERS ENABLED="Yes">

<JOB:HEADER ENABLED="Yes" FONTNAME="Courier" FONTSIZE="10"
FONTCOLOR="6447714" LAYER="Automatic" MARGINLEFT="0.25" MARGINRIGHT="0.25"
MARGINVERTICAL="0.25" OPACITY="70" ORIENTATION="Page" TEXTCENTER="Header
Center Line 1<CR>Header Center Line 2" TEXTLEFT="Header Left Line
1<CR>Header Left Line 2" TEXTRIGHT="Header Right Line 1<CR>Header
Right Line 2" PAGES="Odd" PAGENUMBERINGMODE="MergedDocument" />

</JOB:HEADERS>

```

HTML Conversion (HTMLCONVERSION)

HTML Conversion allows users to define how HTML files are rendered. Users may specify the page size, orientation and page margins.

Table 48 - HTML Attributes

Name	Values	Description
MARGINBOTTOM	Numeric ¹ (Default = 1)	Specifies the bottom margin for converting HTML documents.
MARGINLEFT	Numeric ¹ (Default = 1)	Specifies the left margin for converting HTML documents.
MARGINRIGHT	Numeric ¹ (Default = 1)	Specifies the right margin for converting HTML documents.
MARGINTOP	Numeric ¹ (Default = 1)	Specifies the top margin for converting HTML documents.
ORIENTATION	Portrait (Default) Landscape	Specifies the page orientation to use for converting HTML documents.
PAGESIZE	Letter (Default) Legal Tabloid A Size B Size C Size D Size E Size F Size A0 A1 A2 A3 A4 A5 Custom	Specifies the page size to use for converting HTML documents.
PAGEHEIGHT	Numeric ¹ (Default = 11)	Specifies the height of the page when the PAGESIZE attribute is defined as "Custom".
PAGEWIDTH	Numeric ¹ (Default = 8.5)	Specifies the width of the page when the PAGESIZE attribute is defined as "Custom".

- 1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Figure 11 - HTML

```
<JOB:HTMLCONVERSION MARGINBOTTOM="0.5" MARGINLEFT="0.5" MARGINRIGHT="0.5"  
MARGINTOP="0.5" ORIENTATION="Landscape" PAGESIZE="Custom" PAGEHEIGHT="11"  
PAGEWIDTH="8.5" />
```

HTML Settings (HTMLSETTINGS)

HTML Settings allows the user to define parameters for converting documents to HTML.

Table 49 – HTML Settings Attributes

Name	Values	Description
IMAGETYPE	Automatic (Default) JPEG PNG	Embedded images in the source document will be saved in most appropriate format. Embedded images in the source document will be saved in JPEG format. Embedded images in the source document will be saved in PNG format.
IMAGERESOLUTION	Automatic (Default) 72 96 150 300	Embedded images in the source document are saved at the original resolution. Embedded images in the source document are saved at 72 DPI. Embedded images in the source document are saved at 96 DPI. Embedded images in the source document are saved at 150 DPI. Embedded images in the source document are saved at 300 DPI.
RESOURCEFOLDERNAME	Text	Specifies the name of the folder that contains the HTML resource files (e.g. images). This folder will be located in the Output folder. Note: The default folder name is [HTMLfilename]_files. If the folder name specified is a null string, then the resource files will be placed in the same location as the HTML file.
RESOURCEFILENAMEPREFIX	Text	Specifies the prefix to add to all the files in the resource folder.

HTML Split (HTMLSPLIT)

Specifies whether or not to create a single HTML file for each page of the source document.

Table 50 – HTML Split Attributes

Name	Values	Description
ENABLED	Yes	One HTML file is created for each page of the source document.
	No (Default)	Only one HTML file is created for the entire source document.

HTML MSWord (HTMLMSWORD)

The HTML MS Word element allows the user to select the application used to convert MS Word documents to HTML. MS Word files can be rendered using MS Word itself or via the Adlib Conversion Engine.

Table 51 – HTML MSWord Attributes

Name	Values	Description
ENABLED	Yes	MS Word is used to convert to HTML. (MS Word must be installed.)
	No (Default)	The Adlib Conversion Engine is used to convert to HTML.

Note: HTMLSPLIT is not supported if HTMLMSWORD is enabled.

HTMLSETTINGS -> IMAGETYPE and IMAGERESOLUTION are not supported if HTMLMSWORD is enabled.

Post-processing (Stamping, Transformations, etc) is not supported when HTMLMSWORD is enabled.

HTML MSEXcel (HTMLMSEXCEL)

The HTML MS Excel element allows the user to select the application used to convert MS Excel documents to HTML. MS Excel files can be rendered using MS Excel itself or via the Adlib Conversion Engine.

Table 52 – HTML MSEXcel Attributes

Name	Values	Description
ENABLED	Yes	MS Excel is used to convert to HTML. (MS Excel must be installed.)
	No (Default)	The Adlib Conversion Engine is used to convert to HTML.

Note: HTMLSPLIT is not supported if HTMLMSEXCEL is enabled.

HTMLSETTINGS -> IMAGETYPE and IMAGERESOLUTION are not supported if HTMLMSEXCEL is enabled.

Post-processing (Stamping, Transformations, etc) is not supported when HTMLMSEXCEL is enabled.

HTML MSPowerPoint (HTMLMSPOWERPOINT)

The HTML MS PowerPoint element allows the user to select the application used to convert MS PowerPoint documents to HTML. MS PowerPoint files can be rendered using MS PowerPoint itself or via the Adlib Conversion Engine.

Table 53 – HTML MSPowerPoint Attributes

Name	Values	Description
ENABLED	Yes	MS PowerPoint is used to convert to HTML. (MS PowerPoint must be installed.)
	No (Default)	The Adlib Conversion Engine is used to convert to HTML.

Note: HTMLSPLIT is not supported if HTMLMSPOWERPOINT is enabled.

HTMLSETTINGS -> IMAGETYPE and IMAGERESOLUTION are not supported if HTMLMSPOWERPOINT is enabled.

Post-processing (Stamping, Transformations, etc) is not supported when HTMLMSPOWERPOINT is enabled.

Hyperlinks (HYPERLINKS)

Hyperlinks can be preserved from the original document(s) or you can create additional hyperlinks within the newly created PDF. In addition, the Native Application (see below) must reside on the computer and is used to render the document. Hyperlinks are also preserved for Table of Contents, List of Figures, and List of Tables as well as for references contained in the documents. The CREATECONTENTHYPERLINKS feature is supported for the following Native Applications:

Microsoft Office 2003 (Word, Excel, PowerPoint)
 Microsoft Office 2002 (Word, Excel, PowerPoint)
 Microsoft Office 2000 (Word, Excel, PowerPoint)
 Microsoft Office 97 (Word, Excel)
 Microsoft Internet Explorer (5.0, 5.5, 6.0)
 Microsoft Visio (2000, 2002)
 Corel (WordPerfect Version 9.0 to 11.0)

Tip: The MS Word **Allow A4/Letter paper resizing** check box must be disabled in order for the Hyperlinks to be located at the correct location on the page. The **Allow A4/Letter paper resizing** setting is located under Tools -> Options -> Print tab.

Tip: Preserving the Hyperlinks in the PDF increases the document processing time.

Tip: Hyperlink remapping when splitting or merging is a part of the Advanced Publishing add-on, please contact sales (**Appendix I - Contact Adlib**) if you wish to purchase the Advanced Publishing add-on.

Tip: When converting HTML files, and URIDOWNLOAD="Yes", all hyperlinks using relative paths will not be valid as all files needed would not be downloaded. If URIDOWNLOAD="Yes", no hyperlinks will be accessible.

See **Figure 12 - Hyperlink** for a complete example including custom hyperlinks.

Table 54 – Hyperlinks Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables all hyperlinks.
CREATECONTENTHYPERLINKS	Yes No (Default)	Enables/Disables hyperlinks within documents for supported applications.
INHERITAPPEARANCE	Yes (Default) No	Enables/Disables inheriting the appearance of the hyperlink from the source document.

Hyperlink (HYPERLINK)

The Hyperlink element allows users to create their own custom hyperlinks and place them wherever they wish.

Table 55 – Hyperlink Attributes

Name	Values	Description
PAGENUMBER	Text	What page number the hyperlink is to appear on.
PAGEX	Numeric ¹	X co-ordinate on the page where the hyperlink is to appear on. (Starts from bottom left)
PAGEY	Numeric ¹	Y co-ordinate on the page where the hyperlink is to appear on. (Starts from bottom left)
WIDTH	Numeric ¹	Width of the hyperlink.
HEIGHT	Numeric ¹	Height of the hyperlink.

- 1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Hyperlink Appearance (HYPERLINKAPPEARANCE)

The Hyperlink Appearance determines how the custom Hyperlink is to appear in the final document.

Tip: *If the DISPLAYTYPE is defined as "Invisible" and the DISPLAYCOLOR and DISPLAYSTYLE attributes are also defined, the hyperlink appearance is unaltered.*

Table 56 – Hyperlink Appearance Attributes

Name	Values	Description
DISPLAYCOLOR	Numeric (Default = 16711680)	BGR value for the Color of the Hyperlink Text. Four colors are currently supported. Black (0) Red (255) Blue (16711680) Green (65280)
DISPLAYSTYLE	Dashed Solid (Default)	Style of the hyperlink.
DISPLAYTYPE	Invisible (Default) Visible	Display type of the hyperlink.
DISPLAYWIDTH	Thin (Default) Medium Thick	Display width of the hyperlink.

Hyperlink Destination (HYPERLINKDESTINATION)

The Hyperlink Destination determines where the custom Hyperlink links to in the final document. This can be within the PDF file, or an external reference.

Table 57 – Hyperlink Destination Attributes

Name	Values	Description
ADDRESS	Text	Location where the hyperlink directs to.
ADDRESSTYPE	Web (Default) Email Internal File	What type of address the hyperlink is.
PAGENUMBER	Numerical (Default = 0)	Which page number of the destination the hyperlink directs to.
PAGEX	Numeric ¹	X co-ordinate on the page of the destination file where the hyperlink directs to. (Starts from bottom left)
PAGEY	Numeric ¹	Y co-ordinate on the page of the destination file where the hyperlink directs to. (Starts from bottom left)

- 1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Hyperlinks Appearance (HYPERLINKSAPPEARANCE)

The Hyperlinks Appearance determines how all the automatic hyperlinks contained in the document(s) are to appear in the final document (see **Figure 12 - Hyperlink**).

Table 58 – Hyperlinks Appearance Attributes

Name	Values	Description
DISPLAYCOLOR	Numeric	The color of the hyperlink.
DISPLAYSTYLE	Dashed Solid (Default)	The style of the hyperlink.
DISPLAYTYPE	Invisible (Default) Visible	The display type of the hyperlink.
DISPLAYWIDTH	Thin (Default) Medium Thick	The display width of the hyperlink.

Figure 12 - Hyperlink

```
<JOB:HYPERLINKS ENABLED="Yes" CREATECONTENTHYPERLINKS="Yes"
INHERITAPPEARANCE="Yes">
  <JOB:HYPERLINK PAGENUMBER="3" PAGEX="2.25" PAGEY="7.0" WIDTH="4.0"
    HEIGHT="0.5">
    <JOB:HYPERLINKAPPEARANCE DISPLAYCOLOR="6447714" DISPLAYSTYLE="Dashed"
      DISPLAYTYPE="Visible" DISPLAYWIDTH="Thick"/>
    <JOB:HYPERLINKDESTINATION ADDRESS="http://www.google.ca"
      ADDRESSTYPE="Web" PAGENUMBER="0" PAGEX="0" PAGEY="0" />
  </JOB:HYPERLINK>
  <JOB:HYPERLINK PAGENUMBER="3" PAGEX="2.25" PAGEY="7.0" WIDTH="4.0"
    HEIGHT="0.5">
    <JOB:HYPERLINKAPPEARANCE DISPLAYCOLOR="6447714" DISPLAYSTYLE="Dashed"
      DISPLAYTYPE="Visible" DISPLAYWIDTH="Thick"/>
    <JOB:HYPERLINKDESTINATION ADDRESS="C:\Adlib Express\Input\ULTIMATE
      JOB TICKETS\FILES\INPUTS\Hyperlink test document.htm"
      ADDRESSTYPE="File" PAGENUMBER="0" PAGEX="0" PAGEY="0" />
  </JOB:HYPERLINK>
  <JOB:HYPERLINKSAPPEARANCE DISPLAYCOLOR="255" DISPLAYSTYLE="Solid"
    DISPLAYTYPE="Invisible" DISPLAYWIDTH="Thin" />
</JOB:HYPERLINKS>
```

Microsoft Word Hyperlinks (MSWORDHYPERLINKS)

The Hyperlinks Appearance determines how all the automatic hyperlinks contained in the document(s) are to appear in the final document (see **Figure 12 - Hyperlink**).

Table 59 – MSWord Hyperlinks Attributes

Name	Values	Description
DISPLAYCOLORMODE	Inherit Defined	Maintains the color of the source hyperlink. Uses the color value specified within the DISPLAYCOLOR attribute.
DISPLAYCOLOR	Numeric	The color of the hyperlink.
DISPLAYSTYLEMODE	Inherit Defined	Maintains the style of the source hyperlink. Uses the style specified within the DISPLAYSTYLE attribute.
DISPLAYSTYLE	None Underlined Dashed	The style of the hyperlink.
HYPERLINKDESTINATION	ExactPosition Page PageTopBottom	The hyperlink will navigate to the exact position on the destination page. The hyperlink navigates to the page. The hyperlink will navigate to the top or the bottom of the page depending on its relative position.
IGNORESAMEPAGEHYPERLINKS	Yes No (Default)	Does not allow the creation of hyperlinks with a destination that resides on the same PDF page. Allows the creation of hyperlinks with a destination that resides on the same PDF page.
LINEWRAPMERGING	None (Default) TOC	Any hyperlinks that span more than one line are created as multiple hyperlinks. Any hyperlinks that are part of a Table of Contents, Table of Figures, Table of Tables, etc. which span more than one line will be created as a single hyperlink.
PAGEBOTTOMOFFSET	Text	Specifies an offset for the hyperlink from the bottom of the page.
PAGETOPOFFSET	Text	Specifies an offset for the hyperlink from the top of the page.

Name	Values	Description
EXPANDNOTEREFHYPERLINKS	No (Default) Yes	Specifies whether to modify the cross reference hyperlink to reflect the location of the end note text, not the actual end note location. (i.e. 1)

IFTS Settings (IFTSSETTINGS)**(Integrated File Type Support)****Table 60 – IFTS Settings Attributes**

Name	Values	Description
SUPPORTEDFILETYPES	Text	<p>Specifies which file types are to be processed by IFTS. Multiple file types are to be specified using a pipe delimited list of the file extension (TXT HPGL MSG).</p> <p>Note: Please refer to <i>Appendix D – Supported File Types</i> in the Express User Guide for a complete list of all the supported file extensions.</p>

Table 61 – IFTS Supported File Types

File Type	Extension
Tagged Image File	TIFF, TIF
Text File	TXT
Adobe Acrobat	PDF
Portable Network Graphics	PNG
Joint Photographic Experts Group	JPG
Bitmap	BMP
Hewlett Packard Graphics Language	HPGL
Microsoft Outlook Message	MSG

Images Settings (IMAGESSETTINGS)

(Requires Envision OCR Add-on)

Image Settings allows users to define parameters associated with converted images. Users may specify the output image compression, resolution and if pages are to be merged into a single document or not.

Table 62 - Image Settings Attributes

Name	Values	Description
IMAGETYPE	PNG JPEG TIFF (Default)	Specifies image type that is outputted when the user defines DOCTYPE="Image" in the DOCOUTPUT element.
COMPRESSION	TIFFCCITTGroup3 TIFFCCITTGroup4(Default) TIFFColorPackBit TIFFColorLZW TIFFColorUncompressed JPEGColor JPEGGrayscale PNGColor PNGGrayscale	Sets the compression method used for the image. If an incorrect compression is selected, Express will choose the most appropriate compression for the image type. Compression Settings for TIFF images: Uses CCITT Group 3 encoding Uses CCITT Group 4 encoding Uses Pack Bits True Color (24 Bit) encoding Uses LZW (24 Bit) encoding Uses Uncompress (24 Bit) encoding Compression Settings for JPEG images: Uses True Color (24 Bit) encoding Uses Grayscale (8 Bit) encoding Compression Settings for PNG images: Uses True Color (24 Bit) encoding Uses Grayscale (8 Bit) encoding
RESOLUTION	75 – 450	Sets the resolution of the image in DPI.
SIZEX	Numeric (Default = 0)	The horizontal size of the image in pixels. If 0 is selected, then the original file size of the image will be used.
SIZEY	Numeric (Default = 0)	The vertical size of the image in pixels. If 0 is selected, then the original file size of the image will be used.
PRESERVEASPECTRATIO	Yes (Default) No	Specifies whether or not to preserve the aspect ratio of the image.

Image Split (IMAGESPLIT)

Image Split allows users to split converted images into single files. This only applies when outputting to a TIF image.

Table 63 - Image Split Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables the ability to split TIF image files (Note: JPEG and PNG are only single page files)

Figure 13 - Image Settings

```
<JOB:IMAGESETTINGS IMAGETYPE="PNG" COMPRESSION="PNG8BitColor"  
RESOLUTION="800" SIZEX="400" SIZEY="300" PRESERVEASPECTRATIO="Yes" >  
  <JOB:IMAGESPLIT ENABLED="Yes" />  
</JOB:IMAGESETTINGS>
```

Index Settings (INDEX)

An index lists the terms and topics discussed in a document, along with the pages they appear on. Express extracts all words and the corresponding page numbers from a document and then excludes the terms that are contained in a Stop Words text file. The resulting index is sorted alphabetically and formatted into one or more columns. Each term is followed by a list of page numbers where the term is located. Each page number is hyperlinked to the location of the term on the specified page.

Once the index words and page numbers are extracted, an Index Report is created based on the specified page size, margins and number of columns. The font for words and page numbers can be specified independently. The resulting Index Report is then appended to the end of the document.

If desired, all index words and their respective page references can be created as Bookmarks and are appended to the end of the resulting document.

A standard Stop Word file (e.g. IndexStopWords.txt) is distributed with Express and resides in the installed in the Resources folder of the Express installation folder (e.g. C:\Program Files\Adlib\Express\Resources) (See **Figure 14 - Index** for an example).

Indexing is a part of the Advanced Publishing add-on; please contact sales (**Appendix I - Contact Adlib**) if you wish to purchase the Advanced Publishing add-on.

Tip: *If the number of columns is too large, the page size too small, or the column spacing too small, the text may become unreadable.*

Table 64 - Index Settings Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables the creation of the index.
COLUMNS	Numeric	Sets the number of columns for the index.
COLUMNSPACING	Numeric ¹	Sets the spacing between columns.
CREATEBOOKMARKS	Yes No (Default)	Specifies whether or not to create bookmarks based on the results of the index.
EXPANDEDBOOKMARKLEVELMODE	All (Default) Defined None	Specifies whether or not to expand created bookmarks for the index.
EXPANDEDBOOKMARKLEVEL	Numeric	Specifies what level to expand the bookmarks to. (Note: EXPANDEDBOOKMARKLEVELMODE must be set to "Defined")
HYPERLINKDISPLAYSTYLE	Invisible (Default) None BlackSolid BlueDotted BlueSolid GreenDotted GreenSolid	Specifies how Index Items will be displayed as hyperlinks.

Name	Values	Description
	RedDotted RedSolid	
MARGINBOTTOM	Numeric ¹ (Default = 0.5)	Specifies the bottom margin.
MARGINLEFT	Numeric ¹ (Default = 0.5)	Specifies the left margin.
MARGINRIGHT	Numeric ¹ (Default = 0.5)	Specifies the right margin.
MARGINTOP	Numeric ¹ (Default = 0.5)	Specifies the top margin.
ORIENTATION	Portrait (Default) Landscape	Specifies the orientation of the Index.
PAGESIZE	Automatic (Default) Letter Legal Tabloid ASize BSize CSize DSize ESize FSize GSize A0 A1 A2 A3 A4 A5	Specifies the page size of the index. Automatic will match the size of the Index Page to the first page of the document.
STOPWORDSPATH	Text Path	Path to Stop Words file. (e.g. C:\Express\MyStopWords.txt) A Stop Words file contains a list of all words that are to be excluded from the index that is generated.
TABLEADERSTYLE	DashedLine DottedLine (Default) None Underline	Specifies how the Tab Leader will be displayed for each index Item.

- 1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Index Word Style (INDEXWORDSTYLE)

Index Word Style allows users to determine which style they wish to use for the words created on the Index Report.

Table 65 - Index Word Style Attributes

Name	Values	Description
FONTNAME	Helvetica (Default) Helvetica-Bold Helvetica-Oblique Times-Roman Times-Italic Times-Bold Courier Courier-Oblique Courier-Bold Symbol ZapfDingbats	Sets the font name for the indexed word items. Helvetica is the default font if none is specified.
FONTSIZE	Numeric	Sets the font size for the indexed word items.
FontColor	Numeric (Default = 0)	<i>BGR</i> value for the Color of the indexed word items. You can use the RGB function from programming applications such as Microsoft Visual Basic and Microsoft Visual C++ to convert the three RGB values to a single Color value (e.g. RGB(247, 198, 0) = 50935) using the formula 0.3 Red + 0.59 Green + 0.11 Blue.

Index Reference Style (INDEXREFERENCESTYLE)

Index Reference Style allows users to determine which style they wish to use for the reference, displayed by the appropriate page number(s) created on the Index page.

Table 66 - Index Reference Style Attributes

Name	Values	Description
FONTNAME	Helvetica (Default) Helvetica-Bold Helvetica-Oblique Times-Roman Times-Italic Times-Bold Courier Courier-Oblique Courier-Bold Symbol ZapfDingbats	Sets the font name for the indexed reference items. Helvetica is the default font if none is specified.
FONTSIZE	Numeric	Sets the font size for the indexed reference items.
FONTCOLOR	Numeric (Default = 16711680)	<i>BGR</i> value for the Color of the indexed reference items. You can use the RGB function from programming applications such as Microsoft Visual Basic and Microsoft Visual C++ to convert the three RGB values to a single Color value (e.g. RGB(247, 198, 0) = 50935) using the formula 0.3 Red + 0.59 Green + 0.11 Blue.

Figure 14 - Index

```
<JOB:INDEX ENABLED="Yes" COLUMNS="3" COLUMNSPACING="0.125"
CREATEBOOKMARKS="Yes" EXPANDEDBOOKMARKLEVELMODE="All"
EXPANDEDBOOKMARKLEVEL="2" HYPERLINKDISPLAYSTYLE="RedDotted"
MARGINBOTTOM="0.5" MARGINLEFT="0.5" MARGINRIGHT="0.5" MARGINTOP="0.5"
ORIENTATION="Landscape" PAGESIZE="Automatic" STOPWORDSPATH="C:\Adlib
Express\Input\ULTIMATE JOB TICKETS\FILES\STOPWORDS\StopWordsPath.txt"
TABLEADERSTYLE="Underline">
  <JOB:INDEXWORDSTYLE FONTNAME="Times-Bold" FONTSIZE="15" FONTCOLOR="255"
  />
  <JOB:INDEXREFERENCESTYLE FONTNAME="Times-Bold" FONTSIZE="15"
  FONTCOLOR="0" />
</JOB:INDEX>
```

PDF Document Information and Metadata (METADATAELEMENT)

Document Information can be added to the PDF. Fields are placed into the PDF files as they are processed (see **Figure 15 - Document Information**). The PDF format supports the following four Document Information fields.

- Title
- Subject
- Author
- Keywords

In addition to these fields, the PDF format supports the insertion of user definable metadata fields for each document.

Tip: *If no metadata elements are desired, set each to "" to remove them from the PDF.*

Table 67 – Metadata Elements Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enables the entire collection of Metadata elements.

Table 68 - Document Information Attributes

Name	Values	Description
FIELD	Title Subject Author Keywords User Defined	Specifies the Title value. Specifies the Subject value. Specifies the Author value. Specifies the Keywords value(s). Specifies user definable metadata. User Definable Metadata Field Names cannot contain spaces.
VALUE	Text	Specifies the value to be placed in the metadata.

Figure 15 - Document Information

```
<JOB:METADATAELEMENTS ENABLED="Yes">
  <JOB:METADATAELEMENT FIELD="Title" VALUE="My Document Title" />
  <JOB:METADATAELEMENT FIELD="Subject" VALUE="My Document Title" />
  <JOB:METADATAELEMENT FIELD="Author" VALUE="John Smith" />
  <JOB:METADATAELEMENT FIELD="Keywords" VALUE="PDF, Document Conversion,
  Electronic Document, Workflow" />
  <JOB:METADATAELEMENT FIELD="UserDefinedField1" VALUE="User Defined Field
  Value 1" />
  <JOB:METADATAELEMENT FIELD="UserDefinedField2" VALUE="User Defined Field
  Value 2" />
</JOB:METADATAELEMENTS>
```

MS Word Settings (MSWORDSETTINGS)

MS Word settings allow the user to define parameters for converting documents to MS Word format.

Table 69 – MS Word Settings Attributes

Name	Values	Description
CREATETABLES	Yes (Default)	Creates table objects in the resulting document from tables detected in the source document.
	No	Detects tables in the source document but does not create table objects in the resulting document.
CREATEHEADERSFOOTERS	Yes (Default)	Creates header and/or footer objects in the resulting document from headers and/or footers detected in the source document.
	No	Detected headers and/or footers will be placed in the body of the resulting document.
REMOVEIMAGES	Yes	Removes all inline images in the resulting document.
	No (Default)	Preserves all inline images in the resulting document.

Native Application Settings (NATIVEAPPSETTINGS)

Enables users to specify how Native Applications are controlled during document processing. For example, the user can specify the printing format of Microsoft PowerPoint documents (Slides, Handouts, Notes...).

Table 70 – Native Application Attributes

Name	Values	Description
SUPPORTEDFILETYPES	Text	Specifies which file types are to be processed by Native Applications. Multiple file types are to be specified using a pipe delimited list (DOC XML PPT). Note: Please refer to <i>Appendix D – Supported File Types</i> in the Express User Guide for a complete list of all the supported file extensions.

Table 71 – Native Application Supported File Types

File Type	Extension
Microsoft Word	DOC, DOT
Microsoft Word (Rich Text)	RTF
Microsoft Excel	XLS, XLT
Microsoft PowerPoint	PPT, POT, PPS
Tagged Image File	TIFF, TIF
Portable Network Graphics	PNG
Hypertext Markup Language	HTML, HTM, MHT
Extensible Markup Language	XML
Hewlett Packard Graphics Language	HPGL
Corel Draw	CDR
Corel/Novell WordPerfect	WPD, WP5
Microsoft Visio	VSD
Microsoft Project	MPP
AutoCAD Drawing Web Format	DWF
AutoCAD Interchange	DXF
AutoCAD Native Drawing	DWG
Microsoft Outlook Message	MSG

GhostScript (GHOSTSCRIPT)

Allows users to specify whether or not encapsulated postscript (EPS) files are scaled to fit the page. (See **Figure 16 – Native Application**)

Table 72 – GhostScript Attributes

Name	Values	Description
EPSFITTOPAGE	Yes (Default) No	Specifies if EPS files are scaled to fit the page.

Lotus Notes (LOTUSNOTES)

Allows users to specify if attachments are to be extracted and converted by Express when processing Lotus Notes mail files. The attachments would be merged into the same PDF as the E-mail being converted. (See **Figure 16 – Native Application**)

Table 73 – Lotus Notes Attributes

Name	Values	Description
PROCESSATTACHMENTS	Yes (Default) No	Specifies if attachments found in Lotus Notes mail files are to be processed.

Microsoft Excel (MSEXCEL)

Allows users to specify how their spreadsheet (XLS) files will be rendered when using Microsoft Excel to process the files. (See **Figure 16 – Native Application**)

Table 74 – Microsoft Word Attributes

Name	Values	Description
PAGEFROM	Numeric	Specifies the first page to render.
PAGETO	Numeric	Specifies the last page to render.
PRINTWHAT	EntireWorkbook (default) ActiveSheets	Specifies what part of the document to print. Prints the entire workbook. Prints only the active (selected) worksheets.

Microsoft Outlook (MSOUTLOOK)

Allows users to specify how their message (MSG) files will be rendered when using Microsoft Outlook to process the files. (See **Figure 16 – Native Application**)

Table 75 – Microsoft Outlook Attributes

Name	Values	Description
ATTACHMENTHANDLING	Merge(Default)	Specifies that MSG attachments will be merged into a single PDF.
	EmbedAsPDFAttachment	Specifies that MSG attachments will be embedded in as PDF attachments in the output PDF.
CONVERSIONMODE	IFTS	Specifies that IFTS will be used to render MSG files.
	MSOutlook(Default)	Specifies that MS Outlook will be used to render MSG files.
CREATEXMLLOG	Yes No(Default)	Creates a XML log file of the MSG metadata. (To, From, Subject, etc.)
PDFATTACHMENTDOCUMENTTYPE	Original	Specifies that the original attachment will be embedded in the output PDF.
	PDF(Default)	Specifies that the original attachment will be rendered to PDF before being embedded in the output PDF.
PROCESSATTACHMENTS	Yes (Default) No	Specifies if attachments found in Microsoft Outlook mail files are to be processed.

Microsoft PowerPoint (MSPOWERPOINT)

Allows users to specify how their reports (PPT) files will be rendered when using Microsoft PowerPoint to process the files. (See **Figure 16 – Native Application**)

Table 76 – Microsoft PowerPoint Report Attributes

Name	Values	Description
PRINTREPORT	Slides (Default)	Prints the Slides report.
	Notes	Prints the Notes Pages report.
	Outline	Prints the Outline View report.
	OneSlideHandouts	Prints the Handouts One Slide per page report.
	TwoSlideHandouts	Prints the Handouts Two Slide per page report.
	ThreeSlideHandouts	Prints the Handouts Three Slide per page report.
	FourSlideHandouts	Prints the Handouts Four Slide per page report.
	SixSlideHandouts	Prints the Handouts Six Slide per page report.
	NineSlideHandouts	Prints the Handouts Nine Slide per page report.
PRINTHIDDENSLIDES	Yes (Default) No	Prints the hidden slides in PowerPoint.

Microsoft Visio (MSVISIO)

Allows users to specify how their Visio files (VSD) files will be rendered when using Microsoft Visio to process the files. (See **Figure 16 – Native Application**)

Table 77 – Microsoft Visio Attributes

Name	Values	Description
PAGERANGE		Specifies the page range to print. (see below).
	All (Default)	Prints all pages in the document.
	CurrentPage	Prints the currently selected page.
	CurrentView	Prints the current view.

Microsoft Word (MSWORD)

Allows users to specify how their word documents (DOC) will be rendered when using Microsoft Word to process the files. (See **Figure 16 – Native Application**)

Table 78 – Microsoft Word Attributes

Name	Values	Description
ALLOWA4LETTERPAPERRESIZE	Yes No Automatic(Default)	Automatically adjusts documents to fit your locale's standard paper size. Some locales use A4 as their standard paper size, and some use Letter as their standard paper size.
USEPRINTERMETRICS	Yes (Default) No	Specifies that the Adlib printer metrics are used to lay out the document.
USEHTMLPARAGRAPHAUTOSPACING	Automatic(Default) No Yes	Specifies the HTML paragraph auto-spacing feature in MS Word.
FLATTENFORMFIELDS	Yes (Default) No	Specifies that all form fields will be flattened to prevent them from updating or prompting for data during the rendering stage
PRINTTYPE	DocumentContent(Default) Properties Comments Styles AutoTextEntries KeyAssignments DocumentWithMarkup	Specifies what to render when converting Word documents.

MS Word Markup Options (MSWORDMARKUPOPTIONS)

Controls the rendering of MS Word markup options. Markup is defined as comments and tracked changes such as insertions, deletions, and formatting changes.

Table 79 – Microsoft Word Markup Options

Name	Values	Description
VIEWMODE	Final	Renders Word Document including all markups.
	Original	Renders Word Document with all markups hidden.
	Automatic (Default)	Renders Word Document markup according to document settings.
SHOWALLREVIEWERS	No	Renders Word Document without markup from all reviewers.
	Yes	Renders Word Document including markup from all reviewers.

Name	Values	Description
	Automatic (Default)	Renders Word Document including markup from document specified reviewers.
SHOWCOMMENTS	No	Renders Word Document markup without comments.
	Yes	Renders Word Document markup including comments.
	Automatic (Default)	Renders Word Document comments according to document settings.
SHOWFORMATTING	No	Renders Word Document markup without formatting changes.
	Yes	Renders Word Document markup including formatting changes.
	Automatic (Default)	Renders Word Document formatting changes according to document settings. Note: Formatting includes font, font color, font style, paragraph spacing, justification, etc.
SHOWINKANNOTATIONS	No	Renders Word Document markup without annotations.
	Yes	Renders Word Document markup including annotations.
	Automatic (Default)	Renders Word Document annotations according to document settings.
SHOWINSERTIONSANDDELETIONS	No	Renders Word Document markup without insertions and deletions.
	Yes	Renders Word Document markup including insertions and deletions.
	Automatic (Default)	Renders Word Document insertions and deletions according to document settings. Note: Insertions and deletions includes paragraphs, tables, words, images, etc.

Symantec WinFAX (SYMWINFAX)

Allows users to specify how their faxes (FXR) will be rendered when using Symantec WinFAX to process the files. (See **Figure 16 – Native Application**)

Table 80 – Symantec WinFAX Attributes

Name	Values	Description
ORIENTATION	Portrait(Default) Landscape	Specifies the page orientation.
PAGESIZE	Letter (Default) Legal Tabloid ASize BSize CSize DSize ESize FSize GSize A0 A1 A2 A3 A4 A5	Specifies the page size.

Figure 16 – Native Application

```
<JOB:NATIVEAPPSETTINGS>
  <JOB:GHOSTSCRIPT EPSFitToPage="Yes" />
  <JOB:LOTUSNOTES PROCESSATTACHMENTS="Yes" />
  <JOB:MSEXCEL DOCUMENTPAGESETTINGS="Yes" />
  <JOB:MSOUTLOOK PROCESSATTACHMENTS="Yes" />
  <JOB:MSPOWERPOINT PRINTREPORT="Slides" PRINTHIDDENSLIDES="Yes" />
  <JOB:MSVISIO PAGERANGE="CurrentView" />
  <JOB:MSWORD PRINTTYPE="Comments" />
  <JOB:SYMWINFAX ORIENTATION="Landscape" />
</JOB:NATIVEAPPSETTINGS>
```

Optical Character Recognition Settings (OCRSETTINGS)

Performs Optical Character Recognition (OCR) on images and non searchable PDF files to create searchable PDF documents and/or Text files of the characters contained in the document. These PDF files and Text files can be indexed using Full Text Engines to allow retrieval based on their text content. Please refer to **Table 81 - OCR Settings Attributes** for a detailed description of Envision OCR's capabilities.

Envision OCR supports the following image file types for Black and White, Gray Scale and Color.

- PDF
- BMP
- JPEG
- TIFF
- DCX
- PNG
- MAX

Other document types are OCR'd by converting to PDF and performing the OCR on the PDF. Users can configure settings such as Accuracy, Deskew, Despeckle, Languages, Inversion, and Rotation. Please see **Figure 17 - OCR**

Tip: ExpressRecognition is an Express Server package. Please contact sales (**Appendix I - Contact Adlib**) if you wish to purchase the ExpressRecognition package.

Table 81 - OCR Settings Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables Envision OCR.
ACCURACY	MaximizeAccuracy BalanceAccuracyandSpeed MaximizeSpeed (Default)	Select the degree of accuracy. Optimize for accuracy Balance both accuracy and speed Optimize for speed
DESKEW	Yes (Default) No	Straightens an image skewed due to an improper sheet position on the scanner.
DESPECKLE	Yes (Default) No	Removes random specks from an image to help clarify the results.
INVERT	Automatic (Default) Yes No	Images must be presented to the OCR Engine as black text on a white background. Images that contain white or pale characters on a black background must be inverted.

Name	Values	Description
ROTATE	Automatic (Default) Right Down Left No	Images must be presented in the upright position for the OCR to be successful. OCR will only rotate to a maximum of 15 degrees.
TIMEOUT	Number	Specifies the number of seconds before being cancelled.
ERRORFILEHANDLING	DeleteFile MoveFileToErrorFolder (Default) MoveFileToOutputFolder None	Sets the file handling for the document when an error occurs.
ERRORTHRESHOLD	Number	Specifies the percentage (%) of error allowed, before the recognition is cancelled.
ERRORTHRESHOLDFILEHANDLING	DeleteFile MoveFileToErrorFolder (Default) MoveFileToOutputFolder None	Sets the file handling for the document when the Error Threshold is reached.
USERDICTIONARY	Text Path	Path to USERDICTIONARY file which contains words that OCR will use when recognizing. (e.g. C:\Adlib Express\OCR\MyDictionary.oud)
ONERROROUTPUTASIMAGEONLYPDF	Yes No (Default)	Specifies if OCR should try to create an Image Only PDF on error.
OUTPUTASIMAGEONLYPDF	Yes No (Default)	Enable/Disable the production of non-recognized PDF.
OUTPUTASIMAGEONLYPDFCOLOR	Monochrome (Default) Color	Creates all documents as Black and White documents Creates all documents as color documents
OPIPATH	Text Path	Path to the OPI file which gives OCR co-ordinates of a section of the document to recognize. (e.g. C:\Adlib Express\OCR\MyOCRDocument.opi)

Name	Values	Description
REMOVEBLANKPAGES	Yes No (Default)	Removes blank pages found within the document.
SPLITMODE	Automatic (Default) Defined None	Specifies how OCR internally splits large documents into smaller sections during processing.
SPLITPAGESPERSECTION	Number	When SPLITMODE is set to 'Defined' this attribute defines the number of pages in each section.

Image Processing (IMAGEPROCESSING)

The Image Processing element defines how Envision OCR is to be applied to image type documents. Enabling the Image Processing will perform recognition for the following image types: (See **Figure 17 - OCR**)

- Bitmap
- JPEG
- TIFF
- DCX
- PNG
- MAX

Table 82 - Image Processing Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enables the processing of image files. (Bitmap, JPEG, TIFF, DCX, PNG)
IMAGECONVERSIONCOLOR	Automatic (Default) Monochrome	Creates all documents retaining original color Creates all documents as Black and White documents

PDF Processing (PDFPROCESSING)

The PDF Processing element defines how Envision OCR is to be applied to PDF type documents. Please see **Figure 17 - OCR**.

Table 83 - PDF Processing Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enables the processing of PDF files.
MODE	Image Only (Default) All	PDF files that already contain searchable text will not be recognized All PDF files are recognized
PDFCONVERSIONCOLOR	Monochrome (Default) Color	Creates all documents as Black and White documents Creates all documents as color documents

Document Processing (DOCUMENTPROCESSING)

The Document Processing element defines how Envision OCR is to be applied to non-image, non-PDF documents. Enabling the Document Processing will perform recognition on all documents except for the following due to the fact that they are image files:

- PDF
- Bitmap
- JPEG
- TIFF
- DCX
- PNG

Please see **Figure 17 - OCR**

Table 84 - Document Processing Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables the recognition of all documents that are not PDF, Bitmap, JPEG, TIFF, DCX or PNG.
MODE	Image Only (Default) All	Documents that already contain searchable text will not be recognized All Documents are recognized
DOCUMENTCONVERSIONCOLOR	Automatic	Creates all documents retaining original color

Name	Values	Description
	Monochrome (Default)	Creates all documents as Black and White documents

OCR Languages (OCRLANGUAGES)

Adlib Envision OCR supports 114 languages. It will scan the document attempting to match the characters it finds within the document to the languages selected by the user. The user dictionary can be used for words typically not found in the language, thereby enhancing the results. The XML Job Ticket provides control to set one or more languages to recognize. However, if multiple languages are selected, LANGUAGEDictionaryCORRECTION will be disabled. Please see **Figure 17 - OCR** for an example.

Table 85 – OCR Language Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enables the use of specific languages.
LANGUAGE	Afrikaans : Zulu (Default = English)	List the language to enable. See Table 86 - Supported OCR Languages for a list of supported languages.
LANGUAGEDictionaryCORRECTION	Yes (Default) No	Enables the validation and corrections of words against one dictionary. You must only define one language (e.g. Languages = English) in order to enable Language Dictionary Correction.

Table 86 - Supported OCR Languages

Afrikaans	Esperanto	Kasub	Moldavian	Slovakian
Albanian	Estonian	Kawa	Nahuati	Slovenian
Aymara	Faroese	Kikuyu	Norwegian	Somali
Basque	Fijian	Klingon	Nyanja	Sorbian
Bemba	Finnish	Kongo	Occidental	Sotho
Blackfoot	French	Kpelle	Ojibway	Spanish
Brazilian	Frisian	Kurdish *	Papiamento	Sundanese
Breton	Friulian	Lappish	PiginEnglish	Swahili
Bugotu	Gaelic-Irish	Latin	Polish	Swazi
Bulgarian	Gaelic-Scottish	Latvian	Portuguese	Swedish
Byelorussian	Ganda	Lithuanian	Provençal	Tagalog
Catalan	German	Luba	Quechua	Tahitian
Chamorro	Greek	Luxembourgian	Rhaetic	Tinpo
Chechen	Guarani	Macedonian	Romanian	Tongan
Chuana	Hani *	Malagasy	Romany	Tun *
Cosician	Hawaiian	Malay	Ruanda	Turkish
Croatian	Hungarian	Malinke	Rundi	Ukrainian
Crow	Icelandic	Maltese	Russian	Visayan
Czech	Ido	Maori	Samoan	Welsh
Danish	Indonesian	Mayan	Sardinian	Wolof
Dutch	Interlingua	Miao *	Serbian	Xhosa
English	Italian	Minankabaw	Shona	Zapotec
Eskimo	Kabardian	Mohawk	Sioux	Zulu

* Supported only if written in the Latin alphabet.

OCR Log Settings (OCRLOGSETTINGS)

The Adlib Envision OCR can create a Process Log file that tracks the files processed. In addition, it can create a Document Log that captures detailed information of the OCR process for the individual document. This log is often used to diagnose why a particular document does not OCR. Please see **Figure 17 - OCR** for an example.

Table 87 - OCR Log Settings Attributes

Name	Values	Description
DOCUMENTLOGENABLED	Yes (Default) No	Enables/Disables the creation of the OCR Document Log
DOCUMENTLOGFORMAT	TXT (Default) XML	Specifies the format of the document log.
DOCUMENTLOGFOLDER	Path	Contains the path to which the document log will be created/appended.
DOCUMENTLOGFILENAME	File Name	Specifies the name of the document log.
DOCUMENTLOGRETAINHISTORY	Yes No (Default)	Enables/Disables retaining the document log.
DOCUMENTLOGCOMPRESSTOZIP	Yes (Default) No	Enables/Disables zipping up any retained document logs.
PROCESSLOGENABLED	Yes (Default) No	Enable/Disable the creation of the OCR process log.
PROCESSLOGFORMAT	TXT (Default) XML	Specifies the format of the process log.
PROCESSLOGFOLDER	Path	Contains the path to which the process log will be created/appended.
PROCESSLOGFILENAME	File Name	Specifies the name of the process log.
PROCESSLOGMAXFILESIZE	Numeric (Default = 5)	Determines the maximum files size of the process log. (5-100 MB)
PROCESSLOGRETAINHISTORY	Yes No (Default)	Enables/Disables retaining the process log.
PROCESSLOGCOMPRESSTOZIP	Yes (Default) No	Enables/Disables zipping up any retained process logs.
RETENTIONPERIOD	Numeric (Default = 14)	Specifies the number of days in which the log files are retained. (1-30 days)

Figure 17 - OCR

```
<JOB:OCRSETTINGS ENABLED="Yes" ACCURACY="MaximizeSpeed" DESKEW="Yes"
DESPECKLE="Yes" INVERT ="Automatic" ROTATE="Automatic" TIMEOUT="180"
ERRORFILEHANDLING="MoveFileToErrorFolder" ERRORTHRESHOLD="50"
ERRORTHRESHOLDFILEHANDLING="MoveFileToErrorFolder"
USERDICTIONARYPATH="C:\Adlib Express\MyDictionary.oud"
ONERROROUTPUTASIMAGEONLYPDF="Yes" OUTPUTASIMAGEONLYPDF="Yes"
OUTPUTASIMAGEONLYPDFCOLOR="Color" OPIPATH="C:\Adlib Express\OPI.opi"
REMOVEBLANKPAGES="Yes" >
  <JOB:IMAGEPROCESSING ENABLED="Yes" IMAGECONVERSIONCOLOR="Monochrome" />
  <JOB:PDFPROCESSING ENABLED="Yes" MODE="All"
    PDFCONVERSIONCOLOR="Monochrome" />
  <JOB:DOCUMENTPROCESSING ENABLED="Yes" MODE="All"
    DOCUMENTCONVERSIONCOLOR="Monochrome" />
  <JOB:OCRLANGUAGES>
    <JOB:OCRLANGUAGE ENABLED="Yes" LANGUAGE="English"
      LANGUAGEDICTIONARYCORRECTION="Yes" />
    <JOB:OCRLANGUAGE ENABLED="Yes" LANGUAGE="French"
      LANGUAGEDICTIONARYCORRECTION="No" />
  </JOB:OCRLANGUAGES>
  <JOB:OCRLOGSETTINGS DOCUMENTLOGENABLED="Yes" DOCUMENTLOGFOLDER="C:\Adlib
Express\Error" DOCUMENTLOGFILENAME="Adlib OCR Document Log.txt"
DOCUMENTLOGRETAINHISTORY="Yes" DOCUMENTLOGCOMPRESSTOZIP="Yes"
PROCESSLOGENABLED="Yes" PROCESSLOGFOLDER="C:\Adlib Express\Error"
PROCESSLOGFILENAME="Adlib OCR Process Log.txt" PROCESSLOGMAXFILESIZE="5"
PROCESSLOGRETAINHISTORY="Yes" PROCESSLOGCOMPRESSTOZIP="Yes"
RETENTIONPERIOD="14" />
</JOB:OCRSETTINGS>
```


Overlays (OVERLAYS)

The PDF OVERLAYS allows users to overlay one or more documents on pages of the documents that are converted (See **Figure 18 - Overlay**). The Overlay PDF can contain Images, text and PDF Text Fields. The XML file can contain multiple overlays. Express will automatically convert non-PDF files to PDF so that the overlay is successful. Multiple OVERLAY elements can be added allowing for a variety of overlays. Contained in the OVERLAYS element is as many OVERLAY elements as needed, however to turn off the entire collection, the OVERLAYS element must have ENABLED="No".

Table 88 - Overlays Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enables the entire collection of Overlays.
PRIORITY	1,2,3,4	Specifies the order that certain publishing features will be applied. These features are Headers, Footers, Overlays, and Watermarks. 1 is the feature that will be applied first, 4 being the features applied last.

Table 89 - Overlay Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enables the Overlay.
PATH	Text Path	Specifies the Overlay file.
LAYER	Automatic (Default) Foreground Background	Specifies the layer where the Overlay will be placed. When Automatic is selected, Express inserts the PDF Overlay on the layer (Foreground or Background) that will make it visible.
PAGES	1, 3 5-7 10- First Even Odd Last All DOCN DOCN-	Specifies which pages the overlay should be added to. Individual pages Range of pages inclusive Range to the end of the document First page only Even pages Odd pages Last page All pages Applies Overlay to the N th document. Applies Overlay from the N th document to the end of the final document.

	<p>TOC</p> <p>IDX</p> <p>DocInput Alias[1-]</p>	<p>Applies Overlay to TOC Report.</p> <p>Applies Overlay to the index.</p> <p>Applies Overlay to the page range specified by the DocInput Alias.</p>
ALIGNMENT	<p>Bottom-Left (Default)</p> <p>Bottom-Center</p> <p>Bottom-Right</p> <p>Center-Left</p> <p>Center-Center</p> <p>Center-Right</p> <p>Top-Left</p> <p>Top-Center</p> <p>Top-Right</p>	<p>Specifies the position where the overlay will be inserted.</p>
APPLYAFTERTRANSFORMATION	<p>Yes (Default)</p> <p>No</p>	<p>Specifies whether or not to apply the Overlay after Transformation.</p>
HORIZONTAL	<p>Numeric ¹ (Default = 0)</p>	<p>Specifies the horizontal position of the overlay, based on the alignment attribute.</p>
VERTICAL	<p>Numeric ¹ (Default = 0)</p>	<p>Specifies the vertical position of the overlay, based on the alignment attribute.</p>
MATCHPAGESIZE	<p>Yes</p> <p>No (Default)</p>	<p>This attribute controls the page size of the PDF rendered from the HTML document (prior to cropping). When this attribute is set to "Yes", the HTML document will be rendered to the page size of the output document's page size on a page-by-page basis as defined by the PAGES attribute for the JOB:OVERLAY element. When this option is set to "No", the rendered page size is defined by the PAGEHEIGHT and PAGEWIDTH attributes found in the JOB:HTMLCONVERSION element. In the rendering of HTML documents, the attributes MARGINBOTTOM, MARGINLEFT, MARGINRIGHT and MARGINTOP in the JOB:HTMLCONVERSION element are always respected regardless of whether this attribute (MATCHPAGESIZE) is set to "Yes" or "No". This feature is only supported for overlay files identified as an HTML document.</p>
PAGENUMBERINGMODE	<p>MergedDocument</p> <p>OriginalDocuments</p>	<p>This attribute controls the replaced values for the following replacement macros: &[Page] and &[Pages]. When this attribute is set to "MergedDocument", the page numbers in the document are numbered sequentially as a</p>

		single document (i.e. Page of Total Merged Pages). When this attribute is set to "OriginalDocuments", the page numbers in the document are numbered as if they were individual documents (i.e. Individual Document Page Number of Total Individual Document Pages). This attribute is only supported for overlay files that are identified as HTML documents.
--	--	---

- 1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.
- 2- When rendering HTML documents for an Overlay, ensure that the Header and Footer fields (located in the "Headers and Footers" frame) are "blanked out" in the Page Setup window of Internet Explorer. The Page Setup window is easily accessed from Internet Explorer by clicking File → Page Setup...
- 3- Regarding the "MATCHPAGESIZE" attribute, if absolute positioning is used in the body of HTML documents, the content will not scale to the rendered PDF page size. Please use percentages instead of specific width / height units.
- 4- Regarding "MATCHPAGESIZE" attribute, it is recommended that HTML documents to be used for this feature are not created with Word or other Office products since these products have a tendency to insert comments that are programmatic instructions to the rendering application and may interfere with the replacement macro interpretation. In addition, if the rendering application is not Internet Explorer, then the MATCHPAGESIZE attribute will not function accordingly. The workaround is to delete all references to the Microsoft Office product used to create the HTML document. This includes namespaces and metadata elements found in the body of the HTML. This will help to ensure that the HTML document is rendered using Internet Explorer.
- 5- Missing Background Colors and Images in the resulting overlay.

If background colors and images are to be retained in the overlay document then the following option must be enabled in Internet Explorer:

To enable background colors and images while printing with Internet Explorer:

1. In Internet Explorer, click the Tools button, and then click Internet Options.
 2. Click the Advanced tab and scroll down to the Printing option in the Settings window.
 3. Check the "Print background colors and images" check box.
- 6- HTML documents with dynamic content do not render properly.

HTML documents that have dynamic content must be allowed to render. Security settings in Internet Explorer are set too high causing these documents either to be rendered with missing content or not at all since they cannot be loaded correctly. Reduce the security settings in Internet Explorer to resolve this issue.

- 7- Regarding HTML page encoding.

Ensure that the page encoding is set to "Auto-Select" in Internet Explorer. Otherwise, the font appearance may be different than what has been specified in the source of the HTML document.

- 8- When rendering HTML documents for an Overlay, ensure that website font and color settings are not overridden.

It is recommended that the user does not force certain fonts and colors to be used in Internet Explorer for all websites. To ensure this is not the case, follow these steps:

1. In Internet Explorer, click the Tools button, and then click Internet Options.
2. On the General tab, click Accessibility.
3. Uncheck the following options:
 - Ignore colors specified on web pages
 - Ignore font styles specified on web pages
 - Ignore font sizes specified on web pages check boxes
4. Click OK.

Overlay Crop (OVERLAYCROP)

This element allows the user to “crop” the overlay prior to positioning / applying it to the output document. The rendering of HTML, MHT, Image and CAD files to PDF results in a full-page document with an opaque background. This feature allows this particular file type to be used as a foreground overlay without completely obscuring the underlying content in the resulting document.

Table 90 – Overlay Crop Attributes

Name	Values	Description
MODE	None (Default) CropToContentEdge	When this attribute is set to “CropToContentEdge”, the overlay will be cropped to the smallest area that contains actual page content. When this attribute is set to “None”, the overlay will not be cropped and all other defined attributes within the JOB:OVERLAYCROP element will be ignored.
PADDINGLEFT	Numeric ¹ (Default = 0)	Used to set the distance between the left-most content edge and the left-most page edge of the overlay document. The PADDINGLEFT value cannot exceed the distance between the left-most content edge and the left-most page edge of the overlay document.
PADDINGRIGHT	Numeric ¹ (Default = 0)	Used to set the distance between the right-most content edge and the right-most page edge of the overlay document. The PADDINGRIGHT value cannot exceed the distance between the right-most content edge and the right-most page edge of the overlay document.
PADDINGTOP	Numeric ¹ (Default = 0)	Used to set the distance between the top-most content edge and the top-most page edge of the overlay document. The PADDINGTOP value cannot exceed the distance between the top-most content edge and the top-most page edge of the overlay document.
PADDINGBOTTOM	Numeric ¹ (Default = 0)	Used to set the distance between the bottom-most content edge and the bottom-most page edge of the overlay document. The PADDINGBOTTOM value cannot exceed the distance between the bottom-most content edge and the bottom-most page edge of the overlay.

- 1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.
- 2- Regarding the “MODE” attribute, whitespace is considered to be actual page content. Please be wary of the use of “ ” in your HTML documents.

Figure 18 - Overlay Element

```
<JOB:OVERLAYS ENABLED="Yes">  
<JOB:OVERLAY ENABLED="Yes" PATH="C:\Adlib Express\Overlays\Overlay.pdf"  
LAYER="Foreground" PAGES="First, Even, Last, 3, 9, 15-22" ALIGNMENT="Top-  
Right" HORIZONTAL="0" VERTICAL="0" />  
</JOB:OVERLAYS>
```

Page Identification (PAGEIDENTIFICATION)

Page Identification adds a unique identifier to each page of a document by incrementing it by the value specified by the PAGEIDNEXT attribute for each page in the document. The Page Identification allows you to define up to three items (PageIDA, PageIDB and PageIDC) for the Page Identifier. It is inserted as part of the Header/Footer. (See **Figure 10 - Footers and Headers**) It can be set in XML Job Tickets in order to control the Page Identifier for each Job Ticket. It allows the definition of the Page Identifier structure, that is to include a prefix (e.g. ABC-) and/or Suffix (e.g. -DEF) to the incrementing value. In addition, it allows the setting of the incrementing value.

Table 91 - Page Identification Attributes

Name	Values	Description
PAGEIDA	Text	Defines the structure for the first section of a Page Identifier.
PAGEIDB	Text	Defines the structure for the second section of a Page Identifier.
PAGEIDC	Text	Defines the structure for the third section of a Page Identifier.
PAGEIDNEXT	Integer	Defines the Page Identifier start number for the document. This number can be padded with zeros in order to set the number of digits.
PAGEIDLOGFOLDER	Text Path (Default = C:\Adlib Express\Error)	Contains the path to which the page identifier log will be created/appended.
PAGEIDLOGFILENAME	Text File Name (Default = Adlib Express Page ID Log.txt)	Specifies the name of the page identifier log.
USEGLOBALPAGEID	Yes (Default) No	Enable/Disable global page identification.

Figure 19 - Page Identification Element

```
<JOB:PAGEIDENTIFICATION PAGEIDA="ABC-" PAGEIDB="&[PageIDIncrement]"
PAGEIDC="-DEF" PAGEIDNEXT="00004321" PAGEIDLOGFOLDER="C:\Adlib Express\Error"
PAGEIDLOGFILENAME="Adlib Express Bates Numbering Document Log.txt"
USEGLOBALPAGEID="Yes"/>
```

Page Stitching (PAGESTITCHING)

The PAGESTITCHING element allows users to stitch pages in a PDF file together. The pages are joined two at a time. The right edge of the first page is bound with the left edge of the next page.

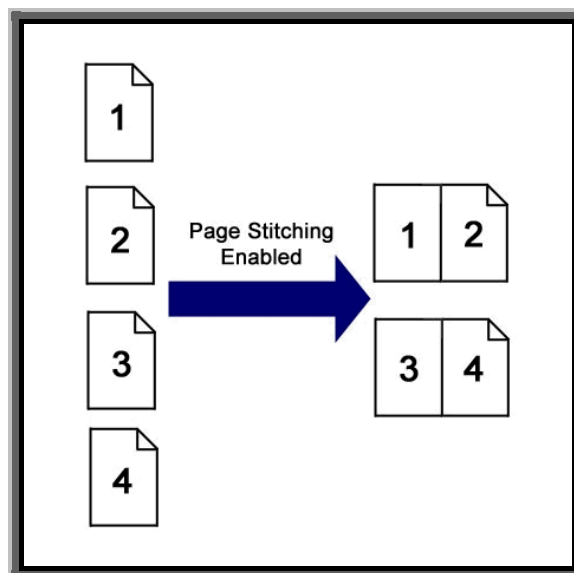
Table 92 - PDF Page Stitching Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables the joining of two pages of a document. Sets the PDF pages to be joined two at a time. The right edge of the first page is bound with the left edge of the next page.
BLANKPAGE	Yes No (Default)	Add a blank page to the left of the first page.

Figure 20 - PDF Page Stitching

```
<JOB:PAGESTITCHING ENABLED="Yes" BLANKPAGE="Yes"/>
```

Figure 21 - PDF Page Stitching



PDF Form (PDFFORMFIELDS)

The PDFFORMFIELDS element contains one PDFFORMFIELD element for every form to be added to the PDF (See **Figure 22 – PDF Form Field**). It is used to add text information that can be entered by the user to PDF Forms. Multiple fields can be filled by adding a new PDFFORMFIELD element to the collection for each field. Each PDFFORMFIELD element defines the name of the field and the value to be assigned to that field. The FLATTEN attribute permanently presses the fields and values into the page contents. This disables all of the form interactivity.

You must assign a name to the PDF form in the XML. The example in **Figure 22 – PDF Form Field** uses BusinessCard as the form name for the MyBusinessCardForm.pdf form (e.g. <\PDFForm:BusinessCard>). This name must be used for each field the form contains (e.g. <\PDFForm:BusinessCard>FaxNumber = (123)456-8901).

Table 93 – PDF Form Fields Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enables the form filling option.
FLATTEN	Yes No (Default)	Enables/Disables the flattening of the form after it has been filled. The flattening process permanently presses the fields and values into the page contents. This disables all of the form interactivity.

Table 94 – PDF Form Field Attributes

Name	Values	Description
FIELD	Text	Assigns a text string to one field for a form. Multiple fields can be filled by defining each one individually.
VALUE	Text	Assigns a text string to one field for a form. Multiple fields can be filled by defining each one individually. A text string can be inserted as multiple lines by adding the <CR> string between each line. (e.g. < JOB:PDFFORMFIELD FIELD="Name" VALUE="John <CR> Smith" />)

Figure 22 – PDF Form Field

```
<JOB:PDFFORMFIELDS ENABLED="Yes" FLATTEN="No">
  <JOB:PDFFORMFIELD FIELD="Name" VALUE="John &lt;CR&gt; Smith" />
  <JOB:PDFFORMFIELD FIELD="eMailAddress" VALUE="john.smith@acme.com" />
  <JOB:PDFFORMFIELD FIELD="PhoneNumber" VALUE="(123) 456-7890" />
  <JOB:PDFFORMFIELD FIELD="FaxNumber" VALUE="(123) 456-8901" />
</JOB:PDFFORMFIELDS>
```

PDF Information (PDFINFOSETTINGS)

The PDFINFOSETTINGS element is used to define parameters associated with PDF Info extracted from PDF Files. Users may specify the output style of the PDF Text Tokens which are extracted from the PDF (See **Figure 23 – Extract PDF Information** for extraction options). The resulting text file contains all of the text extracted from the PDF (see **Figure 24 - Extracted Text Information (Token File)**). In addition, it contains all metadata for each text token (See **Table 96 - Extracted Text Information (Token File) File Structure**).

Tip: *If these tokens are of a different font or font style, they will not be merged.*

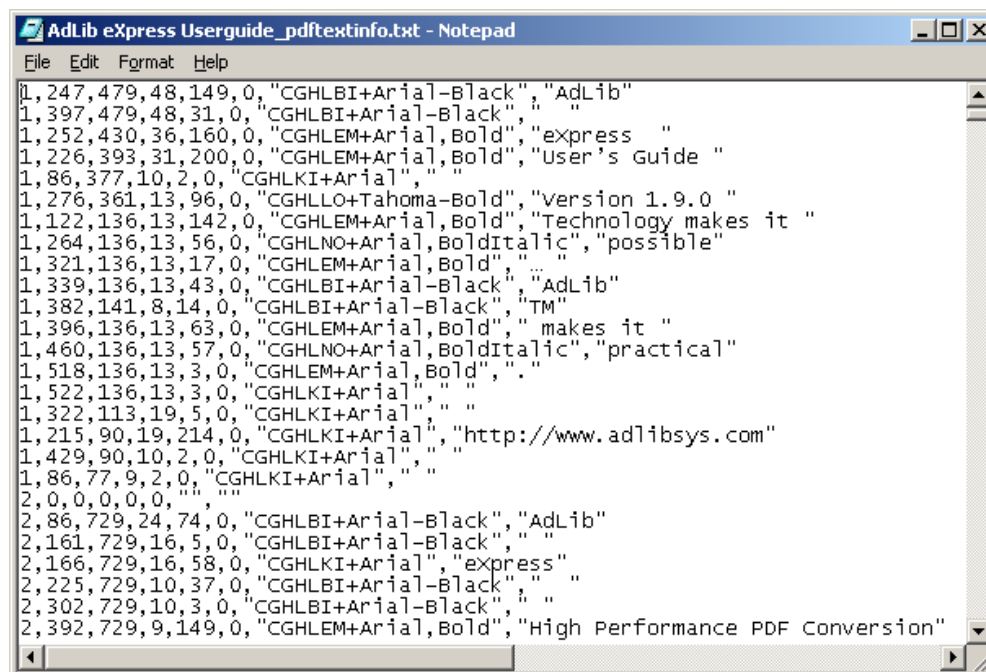
Table 95 - Extract PDF Information Attributes

Name	Values	Description
TYPE		All values can be used simultaneously separated by a pipe () delimiter. The following values offer the following information on extraction:
	Bookmarks	Level, Text, Destination Type, Destination, Destination Page, Destination X, Destination Y
	Text	Page, X, Y, Height, Width, Orientation, Font Name, Text (PDF Token Text)
	File	File size (in KB), Date Created, Date Modified, Page Count, PDF Version
	Form Fields	Name, Instance, Page, X, Y, Width, Height, Font Name, Font Size, Alignment, Description, Form Field Value
	Hyperlinks	Destination Page, Destination X, Destination Y, Width, Height, Address Type, Address (Note: Value extracted are dependant on the Address Type)
	Metadata	Key (e.g. Title, Producer, Version, etc...), Value
	OCRZoneData	Name, Page, Left, Top, Width, Height, Type followed by the extracted OCR text. (Note: OCR must be enabled with an OPI file defined.)
	Pages	Page Number, Width, Height, Text Margin Left, Text Margin Right, Text Margin Top, Text Margin Bottom
	DigitalSignatureFields	Name, Instance, Page, X, Y, Width, Height, Signed Value
FORMAT	CSV (Default)	Comma Separated Values
	XML	eXtensible Markup Language
ENCODING	ISO88591 (Default)	Industry-standard code set for 7-bit ASCII characters.

Name	Values	Description
	UTF8	8-bit Unicode Transformation Format is a lossless, variable-length character encoding for Unicode.
	UTF16	16-bit Unicode Transformation Format is a lossless, variable-length character encoding for Unicode.
STYLE	Default (Default)	Uses a default setting to extract the text
	Adjacent	Merges Text tokens that are adjacent into a single token
	SingleSpace	Merges Text tokens that are separated by one space or less into a single token
	Line	Merges Text tokens that are on the same line using the token Y coordinate
	Word	Splitting of Text tokens into separate words
CSVDELIMITER	Text	Specifies the delimiter when using CSV format
CSVHEADINGS	Yes No (Default)	Specifies if the headings are placed in the text

Figure 23 – Extract PDF Information

```
<JOB:PDFINFOSETTINGS TYPE="Text|Metadata" FORMAT="CSV" ENCODING="ISO88591"
STYLE="Default" CSVDELIMITER="/" CSVHEADINGS="Yes" />
```

Figure 24 - Extracted Text Information (Token File)

Table 96 - Extracted Text Information (Token File) File Structure

Item Number	Item Description
1	Page Number
2	X Coordinate on Page in Points
3	Y Coordinate on Page in Points
4	Height
5	Width
6	Orientation
7	Font Name
8	Text

Figure 25 – Sample PDF Information file

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<PDFINFO>
  <BOOKMARKS>
    <BOOKMARK LEVEL="1">
      <BOOKMARKDESTINATION ADDRESSTYPE="Internal" ADDRESS="" PAGE="1" X="1"
        Y="13824"/>Adlib Express Userguide.pdf
    </BOOKMARK>
    <BOOKMARK LEVEL="2">
      <BOOKMARKDESTINATION ADDRESSTYPE="Internal" ADDRESS="" PAGE="11" X="1"
        Y="698"/>Introduction
    </BOOKMARK>
  </BOOKMARKS>

  <FILE SIZE="1700.4951171875" DATECREATED="6/7/2005 2:45:00 PM" DATEMODIFIED="6/7/2005
    2:45:02 PM" PAGECOUNT="174" PDFVERSION="1.3"/>

  <FORMFIELDS>
    <FORMFIELD NAME="FaxNumber1" INSTANCE="1" PAGE="1" X="72.71194" Y="26.80106"
      WIDTH="120.9374" HEIGHT="11.02829" FONTNAME="Helvetica" FONTSIZE="0" ALIGNMENT="Left"
      DESCRIPTION="">(905) 858-4558 test1</FORMFIELD>
    <FORMFIELD NAME="PhoneNumber1" INSTANCE="1" PAGE="1" X="72.71194" Y="38.39011"
      WIDTH="120.5635" HEIGHT="11.02829" FONTNAME="Helvetica" FONTSIZE="0" ALIGNMENT="Left"
      DESCRIPTION="">(905) 858-4567 test1</FORMFIELD>
  </FORMFIELDS>

  <HYPERLINKS>
    <HYPERLINK ADDRESSTYPE="Web" ADDRESS="http://www.lycos.com" PAGE="0" X="0" Y="0">
      <HYPERLINKZONE PAGE="1" X="84.25" Y="538.5" WIDTH="122.5" HEIGHT="14">
        <HYPERLINKOBJECT TYPE="TEXT" X="84.25" Y="538.5" WIDTH="122.5" HEIGHT="10"
          FONTNAME="TimesNewRoman" ORIENTATION="0">TEXT</HYPERLINKOBJECT>
      </HYPERLINKZONE>
    </HYPERLINK>
  </HYPERLINKS>

  <METADATAELEMENTS>
    <METADATAELEMENT FIELD="Title" VALUE="Adlib eXpress Server User Guide"/>
    <METADATAELEMENT FIELD="Producer" VALUE="www.adlibsys.com:ADLIBPDF2026-W2KP"/>
    <METADATAELEMENT FIELD="Creator" VALUE="Microsoft Word 2003"/>
    <METADATAELEMENT FIELD="Author" VALUE="Adlib eDocument Solutions"/>
  </METADATAELEMENTS>

  <PAGES>
    <PAGE NUMBER="1" WIDTH="8.5" HEIGHT="11" TEXTMARGINLEFT="0.2111111" TEXTMARGINRIGHT="-
      1.715416" TEXTMARGINTOP="2.356667" TEXTMARGINBOTTOM="0.5533333"/>
    <PAGE NUMBER="2" WIDTH="8.5" HEIGHT="11" TEXTMARGINLEFT="0.2111111" TEXTMARGINRIGHT="-
      1.715416" TEXTMARGINTOP="0.5333337" TEXTMARGINBOTTOM="0.5533333"/>
  </PAGES>

  <TEXT>
    <TEXTSTRING PAGE="1" X="169.68" Y="507.84" WIDTH="149.384" HEIGHT="48" ORIENTATION="0"
      FONTNAME="PHQGHU+ArialBlack">AdLib</TEXTSTRING>
    <TEXTSTRING PAGE="2" X="136.679" Y="148.258" WIDTH="598.8309" HEIGHT="69.96507"
      ORIENTATION="52" FONTNAME="Helvetica">Express Evaluation</TEXTSTRING>
  </TEXT>

  <OCRZONES>
    <OCRZONE NAME="Heading1" PAGE="10" LEFT="350" TOP="284" WIDTH="415" HEIGHT="85"
      TYPE="Text">Bug Collector Pro</OCRZONE>
    <OCRZONE NAME="Heading2" PAGE="10" LEFT="350" TOP="1000" WIDTH="471" HEIGHT="85"
      TYPE="Text">Buggy</OCRZONE>
    <OCRZONE NAME="Heading3" PAGE="10" LEFT="350" TOP="1500" WIDTH="415" HEIGHT="85"
      TYPE="Text">ItemAction</OCRZONE>
  </OCRZONES>
</PDFINFO>
```

PDF Information Files (PDFINFOFILES)

The PDFINFOFILES element is used for inserting PDF information (Bookmarks or Hyperlinks) into a PDF. PDF Information files are created by setting the TYPE attribute of a DOCOUTPUT to PDFInfo and specifying PDFINFOSETTINGS. (See **Table 97 - PDF Information Files Attributes**)

Table 97 - PDF Information Files Attributes

Name	Values	Description
PATH	Text	Fully qualified path to PDF Info file.
TYPE		All values can be used simultaneously separated by a pipe () delimiter.
	Bookmarks	The following values offer the following information on extraction: Level, Text, Destination Type, Destination, Destination Page, Destination X, Destination Y
	Hyperlinks	Destination Page, Destination X, Destination Y, Width, Height, Address Type, Address (Note: Value extracted are dependant on the Address Type)

PDF Settings and Print Options (PDFSETTINGS)

PDF Settings allows users to define parameters for how PDF files are converted. (See **Figure 26 - PDF Settings**).

Table 98 – PDF Settings Attributes

Name	Values	Description
COLORMODEL	RGB (Default) CMYK	Specifies the color model to be used for all colors in the PDF document. (CMYK colors are usually used for printing documents on color printers)
IMAGECOMPRESSION	Automatic (Default) Default 256 JPEG	Sets the Image Compression Algorithm.
INCREMENTALSAVE	Automatic (Default) Yes No	Appends changes to a PDF, leaving the original data untouched. This allows changes to the document to be tracked and undone, since data is never removed from the file. Incremental saves are necessary when modifying documents that have been digitally signed to preserve the integrity of existing signatures. (Note: file size will increase with each update.)
JPEGCOMPRESSIONLEVEL	1-9 (Default = 5)	Sets the JPEG Compression Level if the Image Compression is set to JPEG. The Low setting indicates a lower compression, less loss of content, and a larger PDF. The High setting increased content loss but results in a smaller PDF.
MONOIMAGECOMPRESSION	Default CCITTGroup4 JBIG2 JBIG2Lossless (Default)	Sets the Mono Image Compression Algorithm. JBIG2 and JBIG2Lossless, high compression algorithms are an add on; please contact sales (Appendix I - Contact Adlib) if you wish to purchase this Add-on.
GRAYSCALE	Yes No (Default)	Enables/Disables conversion of the PDF content to Gray Scale rather than color.
PAGECOMPRESSION	Yes (Default)	Enables/Disables Page Content

Name	Values	Description
	No	Compression. The content of the PDF will be sampled to a lower quality.
DOWNSAMPLEIMAGES	Yes No (Default)	If enabled, all images in the output PDF will be down sampled to the Resolution.
RESOLUTION	75 150 300 (Default) 600 1200	Specifies the resolution of the PDF. Measured in dots per inch (DPI).
CONVERTUSINGNATIVEAPPLICATIONSUPPORT	Yes (Default) No	Enable/Disable PDF conversion through Native Application.
CONVERTUSINGEXTENDEDFILETYPESUPPORT	Yes (Default) No	Enable/Disable PDF conversion with Extended File Type Support. EFTS is an add on; please contact sales (Appendix I - Contact Adlib) if you wish to purchase this Add-on.
PDFVERSION	PDFVersion1.2 PDFVersion1.3 (Default) PDFVersion1.4 PDFVersion1.5 PDFVersion1.6	Sets the version of the PDF document. Adobe Acrobat 3 Adobe Acrobat 4 Adobe Acrobat 5 Adobe Acrobat 6 Adobe Acrobat 7
PDFTYPE	PDF PDFA-1b PDFX-1a-2001 PDFX-3-2002	 Sets the version of PDF/A compliancy. Sets the version of PDF/X compliancy. Sets the version of PDF/X compliancy.
PDFVERSIONINHERIT	Yes No (Default)	Maintains the PDF version when the original document is a PDF.
PAGES	1, 3 5-7 10-	Specifies the pages to print. Individual pages Range of pages inclusive Range to the end of the document

Name	Values	Description
	First Even Odd Last All	First page only Even pages Odd pages Last page All pages
	DOCN	Prints to the N th document.
	DOCN-	Prints the N th document to the end of the final document.
	DOCN[1-5]	Prints the N th document at a specific page range.
	DOCN[First]	Prints the N th document at a specific page range using keywords.
	TOC	Prints only the TOC Report.
	IDX	Prints only the index.

- 1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Associated Index (ASSOCIATEDINDEX)

Optionally enables the use of an index definition file (PDX) which can be used for full text indexing. Full text indexing allows you to search document content for specific words or phrases.

Note: URI paths are currently not supported.

Table 99 – Associated Index

Name	Values	Description
ENABLED	Yes (Default) No	Enables/Disables the associated index.
PATH	Text	Path pointing to index definition file (PDX) for full-text indexing

Font Embedding (FONTEMBEDDING)

Fonts used in the original document may optionally be embedded in the PDF File. PDF files with fonts embedded allow them to be displayed with the same fonts as the original document, even on computers that do not have those fonts installed. If fonts are not embedded, then the document font must be installed on the computer, otherwise the fonts in the PDF will be substituted with the closest font to the original which is resident on the computer (See **Figure 26 - PDF Settings**). Depending on your needs, you would enable or disable font embedding. For situations where not all fonts will be located on a computer viewing the PDF, it is suggested to enable all font embedding. However, font embedding increases the size of the document, so if a minimal file size is required, you would disable font embedding.

Tip: *The Font Embedding property will be automatically enabled. To disable Font Embedding, multi-language fonts must also be disabled.*

Table 100 - Font Embedding Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enables/Disables embedding of fonts.
LICENSEDFONTS	Yes No (Default)	Enables/Disables embedding of Licensed Fonts. Fonts that require a license to use.
MULTILANGUAGEFONTS	Yes (Default) No	Enables/Disables Multilanguage Fonts.
PARTIALFONTS	Yes (Default) No	Enables/Disables Partial Font Embedding. Partial Font embedding only embeds the characters actually used in the PDF. This reduces the size of the PDF document significantly. (Only applicable to MULTILANGUAGEFONTS)
STANDARD FONTS	Yes No (Default)	Enables/Disables embedding of Standard Fonts. Fonts that are installed with the operating system.

PDF Open Settings (OPENSETTINGS)

Open Settings allows users to define how the Adobe Acrobat work area appears when a user first opens a PDF document. Users may set the opening view, the initial page number; the initial magnification as well as the page layout of a PDF document (See **Figure 26 - PDF Settings**).

Table 101 - Document Open Options Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables Document Open Options.
MAGNIFICATION	Default (Default) FitWindow FitWidth FitVisible Zoom25 Zoom50 Zoom100 Zoom125 Zoom150 Zoom200 Zoom400 Zoom800 Zoom1600	Specifies the size in which the page is displayed in the document pane.
PAGE	Numeric	Sets the opening page number.
PAGELAYOUT	SinglePage (Default) Continuous ContinuousFacing	Displays one page in the document pane at a time Arranges the pages in a continuous vertical column Arranges the pages in two columns side by side
PAGEMODE	PageOnly (Default) BookmarksAndPage ThumbnailsAndPage	Displays the document pane only Displays document pane with Bookmarks Displays document pane with Thumbnails
HIDEMENUBAR	Yes No (Default)	Enables/disables the menu bar.
HIDETOOLBAR	Yes No (Default)	Enables/disable the toolbar.

Optimize (OPTIMIZE)

Optimizing the PDF for fast web view to allow viewing of individual PDF pages without downloading the complete PDF file (See **Figure 26 - PDF Settings**).

Table 102 – Optimize Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Specifies if the PDF is to be optimized for Web delivery (Optimize for Fast Web View).

PDF Attachments (PDFATTACHMENTS)

Attachments allow the user to embed attachments to their PDF files. Multiple Attachment elements can be added to the XML Job Ticket allowing for a variety of attachments as desired. Contained in the PDFATTACHMENTS element is as many PDFATTACHMENT elements as needed, however the PDFATTACHMENTS element must have ENABLED="Yes". Attachments can only be seen in Adobe Acrobat 5.0 or greater or Adobe Acrobat Reader 6.0 or greater (See **Figure 26 - PDF Settings**).

Table 103 - PDF Attachment Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enables the entire collection of attachments.
PATH	Text Path	Full path location of the file to be attached.
AUTHOR	Text	Author of the attachment.
COLOR	Numeric	BGR color of the attachment. You may get the RGB values from the Watermark Settings screen. Alternatively, you may use the RGB function from programming applications such as Microsoft Visual Basic and Microsoft Visual C++ to convert the three RGB values to a single Color value (e.g. RGB(247, 198, 0) = 50935) using the formula 0.3 Red + 0.59 Green + 0.11 Blue.
DESCRIPTION	Text	Description of the attachment. Used by adobe to launch the file.
ICON	Graph Paperclip (Default) Pushpin Tag	Icon used to represent the attachment. A graph icon. A paperclip icon. A pushpin icon. A tag icon.

OPACITY	Numeric	Opacity of the attachment icon.
PAGE	Numeric	Page to insert the attachment.
SUBJECT	Text	Information about the attachment.
X	Numeric ¹	Horizontal position of the attachment from bottom left corner.
Y	Numeric ¹	Vertical position of the attachment from bottom left corner.

1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

PDF Pop-up Notes (PDFPOPUPNOTES)

The PDF Pop-up Notes element allows users to create PDF Pop-up Note annotations.

Note: This functionality is currently limited to Microsoft Word documents. Comments within Microsoft Word documents will be translated into PDF Pop-up Notes in the resulting PDF output. (See **Figure 26 - PDF Settings**).

Table 104 - PDF Popup Notes Attributes

Name	Values	Description
CREATECONTENTPDFPOPUPNOTES	Yes No (Default)	Enable/Disable the creation of PDF Pop-up Notes.

PDF Pre-Flight (PDFPREFLIGHT)

PDF Pre-Flight allows the user to validate existing PDFs or newly created PDFs for PDF/A compliancy. Express will log the validation process and any errors encountered in the specified PDF/A log file.

Note: Express currently only supports PDF/A-1b validation.

Table 105 – PDF Pre-Flight Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables the creation of PDF/A compliant files.
PROFILE	PDF/A-1b	Specifies the level of PDF/A compliance. Currently only PDF/A-1b is supported.
ERRORFILEHANDLING	DeleteFile MoveFileToErrorFolder (Default) MoveFileToOutputFolder None	Deletes File the input file.
LOGENABLED	Yes (Default) No	Enables/Disables the PDFPREFLIGHT log file.
LOGPATH	Numeric	Specifies the fully qualified path to the PDFPREFLIGHT log file.
LOGFORMAT	TXT (Default) XML	Specifies the format of the PDFPREFLIGHT log file.

PDF Split (PDFSPLIT)

(Requires Advanced Publishing Add-on)

PDF Split allows users to split converted PDF files into smaller files. The files can be split based on the file size, number of files wanted or pages per file. PDF Split is a part of the Advanced Publishing add-on; please contact sales (**Appendix I - Contact Adlib**) if you wish to purchase the Advanced Publishing add-on. If Advanced Publishing is not registered, and PDF Split is enabled, it will simply split into single page files (See **Figure 26 - PDF Settings**).

Table 106 – PDF Split Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables the ability to split PDF files.
MODE	FileSize NumberOfFiles PagesPerFile (Default)	Specifies how the PDF files are to be split.
MAXFILESIZE	Numeric	Specifies the maximum file size a PDF file. (KB)
NUMBEROFFILES	Numeric	Specifies how many PDF files are to be created.
PAGESPERFILE	Numeric	Specifies how many pages per split file are to be created.

PDF Version Downgrade (PDFVERSIONDOWNGRADE)

(Requires Advanced Publishing Add-on)

PDF Version Downgrade allows users to downgrade PDF files to PDF Version 1.4 compliant PDFs. PDF Version Downgrade is a part of the Advanced Publishing add-on; please contact sales (**Appendix I - Contact Adlib**) if you wish to purchase the Advanced Publishing add-on. If Advanced Publishing is not registered, and PDF Version Downgrade is enabled, the job ticket will error out. (See **Figure 26 - PDF Settings**).

Table 107 – PDF Version Downgrade Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enable/Disable the ability to downgrade PDFs.
PDFVERSION	PDFVersion14	PDF Version 1.4
ERRORFILEHANDLING	DeleteFile MoveFileToOutputFolder MoveFileToErrorFolder (Default) None	Controls how files are handled if there is an error downgrading the PDF. Deletes the PDF document and moves the input document to the Error Folder. Moves the PDF and the input document to the Output Folder. Moves the PDF and the input document to the Error Folder. Do nothing; leave the file where it is.
LOGENABLED	Yes (Default) No	Enable/Disable the creation of the PDF Downgrade log.
LOGPATH	Text	Specifies the location and file name of the PDF Downgrade Log.
LOGFORMAT	TXT (Default) XML	Specifies the format of the log.

The Security element allows users to add PDF Security to the created PDF files allowing you to restrict functions available to users. When a PDF with security is opened by Acrobat or Acrobat Reader, any tools and menu items related to the security options are grayed out when they are disallowed (See **Figure 26 - PDF Settings**). Passwords can be used to grant either open access or full access to the PDF file.

Table 108 - Security Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables PDF security.
ENCRYPTIONMODE	40bit (Default) 128bit	The ENCRYPTIONMODE property enables you to set the encryption level. The higher the encryption, the higher the security as it is more difficult to break into.
NOCHANGINGANNOTATION (40 / 128 bit encryption)	Disabled (Default) Enabled	Prohibits adding or changing these areas, but allows fill-in of fields.
NOCHANGINGDOCUMENT (40 / 128 bit encryption)	Disabled (Default) Enabled	Prohibits changes to the PDF.
NOCONTENTACCESSIBILITY (128 bit encryption)	Disabled (Default) Enabled	Prohibits Content Access for the Visually Impaired.
NODOCUMENTASSEMBLY (128 bit encryption)	Disabled (Default) Enabled	Prohibits adding or changing these areas, but allows fill-in of fields. (Requires NOCHANGINGDOCUMENT to be enabled)
NOFORMFIELDFILLIN (128 bit encryption)	Disabled (Default) Enabled	Prohibits fill-in of fields or signing the PDF. (Requires NOCHANGINGANNOTATION to be enabled)
NOHIGHQUALITYPRINTING (128 bit encryption)	Disabled (Default) Enabled	Prohibits printing the PDF file at a high resolution.
NOPRINTING (40 / 128 bit encryption)	Disabled (Default) Enabled	Prohibits the printing the PDF file.
NOSELECTIONCOPYINGCONTENT (40 / 128 bit encryption)	Disabled (Default) Enabled	Prohibits the selection of the elements in the PDF file.
OPENPASSWORD	Text	Specifies the password used to open the document.
SECURITYPASSWORD	Text	Specifies the password used to change security settings.

Signature (SIGNATURE)

(Requires Digital Signature Add-on)

Signatures are used to authenticate the identity of a user and the validity of a document's content. The signatures store information about the user that signs the document and the state of the document while being signed (See **Figure 26 - PDF Settings**).

There are two main modes in Adlib Express to sign a digital signature, Certificate mode, and SAFE (Secure Access For Everyone) mode. Certificate mode uses a security certificate file which is the standard in signing digital signatures. This certificate file must be local to the system and have a unique password to gain access. Express supports PKCS#7, PKCS#12, DER and PEM certificates. In the two-phase SAFE mode, phase 1 calculates a hash value of the PDF whereas phase 2 inserts the Digital Signature Content Stream into the PDF. Optionally, the CVR (Certificate Validation Report) Stream can also be inserted into the null CVR Object created in the previous phase.

Tip: *Signing Digital Signatures is a separate add-on; please contact sales (**Appendix I - Contact Adlib**) if you wish to purchase the Digital Signatures add-on.*

Table 109 – Signature Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables the signing of digital signatures.
FIELDNAME	Text	Specifies the name of the digital signature field. If no field is specified, the first signature field will be signed and if there are no fields, an invisible signature field is created and then signed.
MODE	Certificate (Default) Phase1 Phase2	Specifies the modes of signing a digital signature. Uses a supplied certificate (using SIGNATURECERTIFICATE) First pass of signing a signature without a certificate, this returns a digest file (PDF data contents) that could be used for phase2 Second pass of signing a signature without a certificate, phase 2 uses phase 1 and then completes the signature

Signature Appearance (**SIGNATUREAPPEARANCE**)

The Signature Appearance element allows users to modify the appearance of the signed digital signature. This is used for certificate mode only.

Table 110 – Signature Appearance Attributes

Name	Values	Description
SIGNATUREIMAGEPATH	Text Path	Specifies the path to an image that would be applied in the foreground of the signature.
LOGOIMAGEPATH	Text Path	Specifies the path to an image that would be applied in the background of the signature.
TEXT	Text	Specifies the text of the signature.

Signature Certificate (**SIGNATURECERTIFICATE**)

The Signature Certificate element allows users to use an existing signature data file to sign their digital signatures.

Table 111 – Signature Certificate Attributes

Name	Values	Description
PATH	Text	Specifies the path to the signature certificate file.
PASSWORD	Text	Specifies the password to gain access to the signature certificate file.

Signature Data (SIGNATUREDATA)

The Signature Data element allows users to specify which encoding to use for both phase 1 and phase 2 processes.

Table 112 – Signature Data Attributes

Name	Values	Description
DIGESTENCODING	Hexadecimal Base64 (Default)	Specifies the coding used when creating a digest file during phase 1.
FILTER	Text	Specifies the name of the signature handler used when validating signatures: AdobePPKLite CICISignIt EntrustPPKEF VeriSignPPKVS
SUBFILTER	Text	Specifies the name that describes the encoding of the signature value and key information in the signature dictionary: PKCS1RSASHA1 PKCS7SHA1 PKCS7Detached
LENGTH	Numeric	Specifies the amount of space used to reserve for the signature during phase 2, this space is reserved during phase 1.
VALUE	Text	Specifies the 64 bit encoded signature value object that would be used during phase 2.

Signature Properties (SIGNATUREPROPERTIES)

The Signature Properties element allows the user to assign name, reason, location and contact info for the digital signature. This is used for both certificate mode and the 2 phase process.

Table 113 – Signature Properties Attributes

Name	Values	Description
NAME	Text	Name value of the signed signature.
REASON	Text	Reason value of the signed signature.
LOCATION	Text	Location value of the signed signature.
CONTACTINFO	Text	Contact info value of the signed signature.

Signature Properties Safe (SIGNATUREPROPERTIESSAFE)

Signature Properties Safe is used when implementing the 2 phase process of signing a digital signature.

Table 114 – Signature Properties Safe Attributes

Name	Values	Description
DICTIONARY	Text Path	Extended dictionary info used when creating a signature object.
CVRLLENGTH	Text	Length to allocate for the second phase 2 when signing a digital signature.
CVRVALUE	Text	PDF object content used to sign the PDF with a digital signature.

Signature Fields (SIGNATUREFIELDS)

Signature Fields are a designated space on the PDF that allows a user to digitally sign the document using Adobe Acrobat. Multiple Signature elements can be added to the XML Job Ticket allowing for a variety of Signatures as desired. Contained in the SIGNATUREFIELDS element is as many SIGNATUREFIELD elements as needed, however the SIGNATUREFIELDS element must have ENABLED="Yes" (See **Figure 26 - PDF Settings**).

Table 115 – Signature Fields Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enables the entire collection of signatures.

Table 116 – Signature Field Attributes

Name	Values	Description
NAME	Text	Name of the signature field.
PAGE	Text	Page number to insert the signature. Allows the use of either a number, "First" or "Last" to be used as the page number.
X	Numeric ¹	Horizontal position to insert the signature from bottom left corner.
Y	Numeric ¹	Vertical position to insert the signature from bottom left corner.
WIDTH	Numeric ¹	Width of the signature field.
HEIGHT	Numeric ¹	Height of the signature field.

Name	Values	Description
SEARCHTEXT	Text	Text to search for in the PDF document. The signature field is placed just above the text. Takes precedence over horizontal and vertical positions.

- 1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

XMP Meta Data (XMPMETADATA)

XMP Meta Data allows users to add document metadata in RDF format to a PDF. Any new document metadata will overwrite existing metadata (See **Figure 26 - PDF Settings**).

Table 117 – XMP Meta Data Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables the addition of XMP Meta Data.
RDF	Text	Location to a text file that contains RDF data to be inserted as XMP Meta Data

Figure 26 - PDF Settings

```
<JOB:PDFSETTINGS IMAGECOMPRESSION="Automatic" JPEGCOMPRESSIONLEVEL="9"
MONOIMAGECOMPRESSION="CCITTGroup4" GRAYSCALE="No" PAGECOMPRESSION="Yes"
DOWNSAMPLEIMAGES="Yes" RESOLUTION="600"
CONVERTUSINGNATIVEAPPLICATIONSUPPORT="Yes"
CONVERTUSINGEXTENDEDFILETYPESUPPORT="Yes" PDFVERSION="PDFVersion14"
PDFVERSIONINHERIT="No" PAGES="All">
  <JOB:FONTEMBEDDING ENABLED="Yes" LICENSEDFONTS="Yes"
    MULTILANGUAGEFONTS="Yes" PARTIALFONTS="Yes" STANDARDFONTS="Yes"/>
  <JOB:OPENSETTINGS ENABLED="Yes" MAGNIFICATION="Zoom200" PAGE="1"
    PAGELAYOUT="ContinuousFacing" PAGEMODE="PageOnly" HIDEMENUBAR="Yes"
    HIDE TOOLBAR="Yes"/>
  <JOB:OPTIMIZE ENABLED="Yes" />
  <JOB:PDFATTACHMENTS ENABLED="Yes">
    <JOB:PDFATTACHMENT PATH="C:\Adlib Express\Input\ULTIMATE JOB
      TICKETS\FILES\ATTACHMENTS\SPECS.TXT" AUTHOR="James" COLOR="255"
      DESCRIPTION="TEST1_ATTACH" ICON="Graph" OPACITY="100" PAGE="1"
      SUBJECT="Attachement1" X="1.0" Y="1.0" />
  </JOB:PDFATTACHMENTS>
  <JOB:PDFSPLIT ENABLED="Yes" MODE="PagesPerFile" MAXFILESIZE="500"
    NUMBEROFFILES="500" PAGESPERFILE="1" />
  <JOB:SECURITY ENABLED="Yes" ENCRYPTIONMODE="128bit"
    NOCHANGINGANNOTATION="Enabled" NOCHANGINGDOCUMENT="Enabled"
    NOCONTENTACCESSIBILITY="Enabled" NODOCUMENTASSEMBLY="Enabled"
    NOFORMFIELD FILLIN="Enabled" NOHIGHQUALITYPRINTING="Enabled"
    NOPRINTING="Enabled" NOSELECTIONCOPYINGCONTENT="Enabled"
    OPENPASSWORD="user" SECURITYPASSWORD="admin" />
  <JOB:SIGNATURE ENABLED="Yes" FIELDNAME="ReaderSignature"
    MODE="Certificate">
    <JOB:SIGNATUREAPPEARANCE SIGNATUREIMAGEPATH="C:\Adlib
      Express\Input\ULTIMATE JOB TICKETS\FILES\SIG\jgriffith_sig.pdf"
      LOGOIMAGEPATH=" C:\Adlib Express\Input\ULTIMATE JOB
      TICKETS\FILES\SIG\logo.jpg" TEXT="SignatureAppearanceText" />
    <JOB:SIGNATURECERTIFICATE PATH=" C:\Adlib Express\Input\ULTIMATE JOB
      TICKETS\FILES\SIG\JGriffithCertificate.cer" PASSWORD="password" />
    <JOB:SIGNATUREPROPERTIES NAME="John Griffith" REASON="To sign"
      LOCATION="Adlib " CONTACTINFO="123-4567" />
  </JOB:SIGNATURE>
  <JOB:SIGNATUREFIELDS ENABLED="Yes">
    <JOB:SIGNATUREFIELD NAME="Romano" PAGE="1" WIDTH="3" HEIGHT="1"
      SEARCHTEXT="apply here" />
    <JOB:SIGNATUREFIELD NAME="Adlib" PAGE="1" X="89" Y="100" WIDTH="3"
      HEIGHT="1" />
  </JOB:SIGNATUREFIELDS>
  <JOB:XMPMETADATA ENABLED="Yes" RDF="C:\Adlib Express\Input\ULTIMATE JOB
    TICKETS\FILES\XMP\XMP2.txt" />
</JOB:PDFSETTINGS>
```

RTF Settings (RTFSETTINGS)

RTF settings allow the user to define parameters for converting documents to RTF format.

Table 118 – RTF Settings

Name	Values	Description
CREATETABLES	Yes (Default)	Creates table objects in the resulting document from tables detected in the source document.
	No	Detects tables in the source document but does not create table objects in the resulting document.
CREATEHEADERSFOOTERS	Yes (Default)	Creates header and/or footer objects in the resulting document from headers and/or footers detected in the source document.
	No	Detected headers and/or footers will be placed in the body of the resulting document.
REMOVEIMAGES	Yes	Removes all inline images in the resulting document.
	No (Default)	Preserves all inline images in the resulting document.

Text Conversion Settings (TEXTCONVERSION)

Text Conversion Settings allow the user to define parameters associated with rendering text documents. (See **Figure 27 - Text Conversion**).

Table 119 - Text Conversion Attributes

Name	Values	Description
FONTSIZE	7-15 (Default = 10)	Specifies the font size to use for converting Text documents.
MARGINHORIZONTAL	Numeric ¹	Specifies the Horizontal Margin for converting Text documents.
MARGINVERTICAL	Numeric ¹	Specifies the Vertical Margin for converting Text documents.
ORIENTATION	Portrait (Default) Landscape	Specifies the page orientation to use for converting Text documents.
PAGESIZE	Letter Legal (Default) Tabloid ASize BSize A3 A4	Specifies the page size to use for converting Text documents. When Automatic is used, the page size, page orientation and font size is automatically determined by Express.
FONTNAME	Courier CourierNew (Default) LucidaConsole	Specifies the font used for Text documents.
FONTSTYLE	Regular Bold (Default)	Specifies the style of the font used for converting Text documents.

- 1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Figure 27 - Text Conversion

```
<JOB:TEXTCONVERSION FONTSIZE="15" MARGINHORIZONTAL="0.5" MARGINVERTICAL="0.5"
ORIENTATION="Portrait" PAGESIZE="Legal" FONTNAME="CourierNew"
FONTSTYLE="Bold" />
```

Text Settings (TEXTSETTINGS)

Text Settings allows users to define parameters for how text is formatted for text output (See **Figure 28 - Text Settings**).

Table 120 - Text Settings Attributes

Name	Values	Description
FORMATSTYLE	Simple (Default) Spatial	Condenses the text by removing spaces. Attempt to preserve the document layout by adding spaces between characters.
INSERTPAGEBREAKS	Yes No (Default)	Specifies whether to insert page breaks into the text files.
MINVERTWHITESPACE	Yes (Default) No	Excludes Line Feeds/Carriage Return characters used to produce the top and bottom margins.
MINHORIWHITESPACE	Yes (Default) No	Excludes leading and trailing space characters used to produce the left and right margins.
OCRTOEXTRACTTEXT	Yes No (Default)	Express will OCR the document if no text is found when the text extraction is performed. This feature requires the Envision OCR to be installed.
NOSOURCETEXTHANDLING	Error (Default) CreateEmptyFile	Express will error out the source document when no text is found and log a warning message. Express will create an empty text file in the destination folder when no text is found.

1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Text Split (TEXTSPLIT)

Text Split allows users to split converted text output into single files.

Table 121 - Text Split Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables the ability to split TXT files.

Figure 28 - Text Settings

```
<JOB:TEXTSETTINGS FORMATSTYLE="Spacial" INSERTPAGEBREAKS="Yes"  
MINVERTWHITESPACE="Yes" MINHORIWHITESPACE="Yes" OCRTOEXTRACTTEXT="No">  
  <JOB:TEXTSPLIT ENABLED="Yes" />  
</JOB:TEXTSETTINGS>
```

Table of Contents (TOC)

(Requires Advanced Publishing Add-on)

A Table of Contents is a list of the headings in a document. You can use a Table of Contents to get an overview of the topics discussed in a document. The Table of Contents is created using the Bookmarks contained in the PDF document. Therefore, you must enable the Bookmarks feature of Express in order to create the Table of Contents successfully. This is beneficial since any PDF can be augmented with a Table of Contents. The Table of Contents contains hyperlinks to the same destinations as the Bookmarks.

When using XML Job Tickets, the user has the ability to define a Table of Contents (TOC) for each DOCINPUT. This can include, page numbers, a tab leader and links to those sections within the document. Nested TOC Items can be used by using the LEVEL attribute, thus creating a TOC based on the bookmarks created. An automatic TOC can be created or a custom TOC can be created for more control. TOC is a part of the Advanced Publishing add-on; please contact sales (**Appendix I - Contact Adlib**) if you wish to purchase the Advanced Publishing add-on.

Please see **Figure 29 - Table of Contents** for an example of a Table of Contents.

Table 122 - TOC Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disabled creation of a Table of Contents.
CREATETOCBOOKMARK	Yes (Default) No	Enables/Disables the creation of a bookmark to the Table of Contents.
DOCUMENTBOOKMARKS	Yes (Default) No	Enables/Disables the creation of automatically generated bookmarks for each file.
DOCUMENTBOOKMARKTEXTMODE	Defined DocumentFilename (Default) DocumentBaseFilename DocumentTitle	Specifies how the TOC item is to be named.
CONTENTBOOKMARKS	Yes (Default) No	Enables/Disables if content bookmarks are to be created for the documents.
HYPERLINKDISPLAYSTYLE	Invisible (Default) None BlackSolid BlueDotted BlueSolid GreenDotted GreenSolid RedDotted RedSolid	Specifies the style in which the hyperlink is displayed in the TOC.

Name	Values	Description
INSERTIONPAGENUMBER	Numeric (Default = 1)	Specifies the page where the TOC is inserted.
MARGINBOTTOM	Numeric ¹ (Default = 0.5)	Specifies the bottom margin of the TOC page.
MARGINLEFT	Numeric ¹ (Default = 0.5)	Specifies the left margin of the TOC page.
MARGINRIGHT	Numeric ¹ (Default = 0.5)	Specifies the right margin of the TOC page.
MARGINTOP	Numeric ¹ (Default = 0.5)	Specifies the top margin of the TOC page.
MAXLEVEL	Numeric	Specifies the maximum level that the TOC report will auto generate.
MULTILINEPAGEBREAKTHRESHOLD	Text	Specifies whether or not a multi-line TOC Item will wrap from one page to another.
ORIENTATION	Portrait (Default) Landscape	Specifies the orientation of the TOC page.
PAGESIZE	Automatic Letter Legal Tabloid ASize BSize CSize DSize ESize FSize GSize A0 A1 A2 A3 A4 A5	Specifies the page size of the TOC page. Automatic will match the size of the TOC Page to the first page of the document.
SHOWPAGENUMBERS	Yes (Default) No	Specifies if the TOC is to show a page number for each item.
TABLEADERSTYLE	DashedLine DottedLine (Default) None Underline	Specifies the tab leader style between the TOC items and their page number.

1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Table of Contents Items (TOCITEMS)

The user has the ability to define TOC items for the TOC. A Table of Contents is constructed from TOCITEMS (See **Figure 29 - Table of Contents**).

Table 123 - TOC Items Attributes

Name	Values	Description
TEXT	Text	The text of the TOC Item and bookmark when document bookmark text mode is equal to defined.
DOCUMENTBOOKMARK	Yes (Default) No	Enables/Disables if a bookmark is to be created for that document.
DOCUMENTBOOKMARKTEXTMODE	Defined DocumentFilename (Default) DocumentBaseFilename DocumentTitle	Specifies how the TOC and bookmarks are to be named.
CONTENTBOOKMARKS	Yes (Default) No	Enables/Disables if content bookmarks are to be created for that TOC item.
LEVEL	Numeric	Specifies what level in the TOC and bookmark are to be found in.

Table of Contents Item Destination (TOCITEMDESTINATION)

The Table of Contents Item Destination determines where the TOC link refers to.

Table 124 - TOC Item Destination Attributes

Name	Values	Description
ADDRESS	Text	Location where the TOC Item directs to.
ADDRESSTYPE	Web (Default) Email Internal File Null	What type of address the TOC Item is.
PAGENUMBER	Text	Which page number to link to.
PAGEX	Numeric ¹	The x axis location to link to. (Starts from bottom left)
PAGEY	Numeric ¹	The y axis location to link to. (Starts from bottom left)

1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Table of Content Levels (TOCLEVELS)

The Table of Content Levels determines which style is used for each level and how far that level is to be indented. To set each style, you must begin with the first level and set each of the 9 available levels.

Table 125 - TOC Level Attributes

Name	Values	Description
INDENTATION	Numeric	How far the level is to be indented.
STYLE	Numeric	Which custom style the level is to use.

Table of Content Styles (TOCSTYLES)

The Table of Content Styles allows the user to create a multitude of custom styles to be used throughout the TOC Page.

Table 126 - TOC Style Attributes

Name	Values	Description
NAME	Text	The name of the style.
FONTNAME	Helvetica Helvetica-Bold Helvetica-Oblique Times-Roman Times-Italic Times-Bold Courier Courier-Oblique Courier-Bold Symbol ZapfDingbats	The font name of the style.
FONTNAMEEXTENDED	Text	The Font Name of the font which is not a standard PDF font. This font must exist on the system. For example: Georgia Georgia Bold Georgia Italic Georgia Bold Italic Tip: Look in the Windows font folder for valid font names.
FONTSIZE	Numeric	The font size of the style.
FOXTENDEDDBOLD	Yes No (Default)	<i>Future Implementation</i>

Name	Values	Description
FONTEXTENDEDITALIC	Yes No (Default)	<i>Future Implementation</i>

Figure 29 - Table of Contents

```

<JOB:TOC ENABLED="Yes" CREATETOCBOOKMARK="Yes" DOCUMENTBOOKMARKS="Yes"
DOCUMENTBOOKMARKTEXTMODE="DocumentFilename" CONTENTBOOKMARKS="Yes"
HYPERLINKDISPLAYSTYLE="BlueSolid" INSERTIONPAGENUMBER="1" MARGINBOTTOM="0.75"
MARGINLEFT="0.75" MARGINRIGHT="0.75" MARGINTOP="0.75" MAXLEVEL="9"
ORIENTATION="Portrait" PAGESIZE="Letter" SHOWPAGENUMBERS="Yes"
TABLELEADERSTYLE="DottedLine">
<JOB:TOCITEMS>
  <JOB:TOCITEM TEXT="Custom TOC Item1" DOCUMENTBOOKMARK="Yes"
    DOCUMENTBOOKMARKTEXTMODE="Defined" CONTENTBOOKMARKS="Yes" LEVEL="1">
    <JOB:TOCITEMDESTINATION ADDRESS="C:\Test Input Files\doc1.doc"
      ADDRESSTYPE="Internal" PAGENUMBER="0" PAGEX="0" PAGEY="0" />
    </JOB:TOCITEM>
  </JOB:TOCITEMS>
<JOB:TOCLEVELS>
  <JOB:TOCLEVEL INDENTATION="1" STYLE="Style1" />
  <JOB:TOCLEVEL INDENTATION="2" STYLE="Style1" />
  <JOB:TOCLEVEL INDENTATION="3" STYLE="Style1" />
  <JOB:TOCLEVEL INDENTATION="4" STYLE="Style2" />
  <JOB:TOCLEVEL INDENTATION="5" STYLE="Style2" />
  <JOB:TOCLEVEL INDENTATION="6" STYLE="Style2" />
  <JOB:TOCLEVEL INDENTATION="7" STYLE="Style3" />
  <JOB:TOCLEVEL INDENTATION="8" STYLE="Style3" />
  <JOB:TOCLEVEL INDENTATION="9" STYLE="Style3" />
</JOB:TOCLEVELS>
<JOB:TOCSTYLES>
  <JOB:TOCSTYLE NAME="Style1" FONTNAME="Helvetica" FONTSIZE="12" />
  <JOB:TOCSTYLE NAME="Style2" FONTNAME="Times-Roman" FONTSIZE="10" />
  <JOB:TOCSTYLE NAME="Style3" FONTNAME="Courier" FONTSIZE="8" />
</JOB:TOCSTYLES>
</JOB:TOC>

```


Transformations (TRANSFORMATION)

The Transformations element allows the user to modify the alignment of the PDF, scale the PDF or scale its contents. Within the Transformations element, the user can specify the alignment of the document when transforming. The PDF uses this point as a focal point when applying the various transformations (See **Figure 30 - Transformations**).

Table 127 - Transformations Attributes

Name	Values	Description
PAGECONTENTALIGNMENT	BottomLeft BottomCenter BottomRight Center (Default) CenterLeft CenterRight TopCenter TopLeft TopRight	Specifies the alignment of the document when transforming.
PAGES	Text	Specifies the pages or page range to apply the specified transformation options.

Page Content Scaling (PAGECONTENTSCALING)

The Page Content Scaling element defines how page content size may be increased or decreased as documents are processed. Page Content Scaling decreases or increases the page content size as specified. Page Content Scaling is performed prior to adding Branding information. Therefore, Watermarks, Headers and Footers, and Overlays are not scaled. There is no quality degradation when content scaling is applied. Page Content Scaling is useful in order to allocate space to add a Header/Footer, Watermark and Overlay (See **Figure 30 - Transformations**).

Table 128 - Page Content Scaling Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables Page Content Scaling.
MARGINBOTTOM	Numeric ¹	Specifies the bottom margin. (Applicable only if MODE has been set to ScaleByMargin)
MARGINTOP	Numeric ¹	Specifies the top margin. (Applicable only if MODE has been set to ScaleByMargin)
MARGINLEFT	Numeric ¹	Specifies the left margin. (Applicable only if MODE has been set to ScaleByMargin)
MARGINRIGHT	Numeric ¹	Specifies the right margin. (Applicable only if MODE has been set to ScaleByMargin)
MODE	ScaleByMargin ScaleByPercent (Default)	The MODE property that sets the scaling type for both the vertical and the horizontal. It is the scaling value.
PRESERVEASPECTRATIO	Yes (Default) No	Specifies to lock the aspect ratio of the page. The ratio of height to width of the page is maintained. This will adjust the values of the margins if necessary.
SCALEHORIZONTAL	Percentage	The SCALEHORIZONTAL property sets the scaling ratio for the Width only. The value is expressed as a percentage of the original page size. (Applicable only if MODE has been set to ScaleByPercent)
SCALEVERTICAL	Percentage	The SCALEVERTICAL property sets the scaling ratio for the Height only. The value is expressed as a percentage of the original page size. (Applicable only if MODE has been set to ScaleByPercent)

- 1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Page Scaling (PAGESCALING)

The Page Scaling element defines how all pages in a document are scaled to a specific page size (Letter, Legal, Ledger, A3, A4, C Size, ...). Please note that the page content is automatically centered on the page when increasing or decreasing the page size (See **Figure 30 - Transformations**).

Table 129 - Page Scaling Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disabled Page Scaling.
PAGESIZE	Letter (Default) Legal Tabloid A Size B Size C Size D Size E Size F Size G Size A0 A1 A2 A3 A4 A5	Sets the Page Size which the output PDF files will be scaled to.
PAGECONTENTSPLITTING	None (Default) Horizontal	Specifies if the content of a file is to be split.

Figure 30 - Transformations

```
<JOB:TRANSFORMATION PAGECONTENTALIGNMENT="Center">

  <JOB:PAGECONTENTSCALING ENABLED="Yes" MARGINBOTTOM="0.5" MARGINTOP="0.5"
  MARGINLEFT="0.5" MARGINRIGHT="0.5" MODE="ScaleByPercent"
  PRESERVEASPECTRATIO="Yes" SCALEHORIZONTAL="75" SCALEVERTICAL="60" />

  <JOB:PAGESCALING ENABLED="Yes" PAGESIZE="Letter"
  PAGECONTENTSPLITTING="Horizontal" />

</JOB:TRANSFORMATION>
```

Watermarks (WATERMARKS)

Watermarks may be added to document files by defining the watermark text and defining the settings for its appearance. The Watermark Text can be inserted on the Foreground or Background Layer of the document. The Watermark can be applied to specific pages of the document. This is often used when it is important for the Watermark not to cover any of the document information. To help with this, the Watermark can be centered automatically or using absolute co-ordinates if needed. This allows the user to specify where they want the watermark to appear so that it does not interfere with any of significant portions of the document. Multiple watermark elements can be added to the XML Job Ticket allowing for a variety of watermarks as desired. Contained in the WATERMARKS element is as many WATERMARK elements as needed, however to turn off the entire collection, the WATERMARKS element must have ENABLED="No". Please refer to the tables below for details (See **Figure 31 - Watermark**).

Table 130 - Watermarks Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables the entire collection of Watermarks.
PRIORITY	1,2,3,4	Specifies the order that certain publishing features will be applied. These features are Headers, Footers, Overlays, and Watermarks. 1 is the feature that will be applied first, 4 being the feature applied last.

Table 131 - Watermark Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enables/Disables the Watermark.
TEXT	Text	Text for the Watermark.
FontColor	Numeric (Default = 6447714)	BGR value for the Color of the Watermark Text. You may get the RGB values from the Watermark Settings screen. Alternatively, you may use the RGB function from programming applications such as Microsoft Visual Basic and Microsoft Visual C++ to convert the three RGB values to a single Color value (e.g. RGB(247, 198, 0) = 50935) using the formula 0.3 Red + 0.59 Green + 0.11 Blue.
FontName	Helvetica (Default) Helvetica-Bold Helvetica-Oblique Times-Roman	Name of the Font for the Watermark. Helvetica is the default font if none is specified

Name	Values	Description
	Times-Italic Times-Bold Courier Courier-Oblique Courier-Bold Symbol ZapfDingbats	.
FONTNAMEEXTENDED	Text	<p>The Font Name of the font which is not a standard PDF font. This font must exist on the system.</p> <p>For example: Georgia Georgia Bold Georgia Italic Georgia Bold Italic</p> <p>Tip: Look in the Windows font folder for valid font names.</p>
FONTSIZE	1 - 4096 (Default = 72)	Font size in points for the Watermark.
FONTSIZEMODE	<p>Absolute (Default)</p> <p>Percent</p>	<p>Specifies if the size for the Watermark text is specified based on the FONTSIZE property or if the font size is automatically calculated based on the page size and the orientation and length of text string.</p> <p>Font size is set based on FONTSIZE property.</p> <p>Font Size is calculated based on available space on page and the length of the text string. The FONTSIZEPERCENT property is used to control how large the calculated font size will be related to the paper size.</p>
FONTSIZEPERCENT	1 - 100 (Default = 100)	Specifies the ratio of the font size to the paper size when the FONTSIZEMODE property is set to Percent. 100 percent represents the maximum font size.
FONTSTYLE	Outline Solid (Default) None	Specifies the Font Style of the Text.
FONTEXTENDED_BOLD	Yes No (Default)	<i>Future Implementation</i>
FONTEXTENDEDITALIC	Yes No (Default)	<i>Future Implementation</i>
ALIGNMENT	BottomLeft (Default)	Specifies the alignment of the watermark.

Name	Values	Description
	BottomCenter BottomRight Center CenterLeft CenterRight TopCenter TopLeft TopRight	
APPLYAFTERTRANSFORMATION	Yes (Default) No	Specifies whether or not to apply Watermark after Transformation.
HORIZONTAL	Numeric ¹ (Default = 0)	Specifies the absolute horizontal position of the Text from the Left edge of the page (e.g. 2.4 inches).
VERTICAL	Numeric ¹ (Default = 0)	Specifies the absolute vertical position of the Text. It is possible to specify the vertical position with respect to the page upper or lower left corner. Express assumes the reference based on the value for the Vertical coordinate. When the Vertical coordinate value is negative, the upper left corner of the page is used as the reference. The lower left corner of the page is used when the Vertical coordinate value is positive.
LAYER	Automatic (Default) Foreground Background	Specifies the layer where the Text will be placed. When Automatic is selected, Express inserts the Watermark on the layer (Foreground or Background) that will make it visible.
OPACITY	1 - 100 (Default = 100)	Specifies the transparency/opacity of the Text.
ORIENTATION	Numeric (Default = 54)	Specifies the Orientation of the Text in Degrees (e.g. 45.5). Zero Degrees places the text horizontally. You may specify the Orientation using a positive or negative value. The orientation is positive in the counter clockwise direction from the horizontal axis on the right when the Vertical coordinate value is positive and clockwise direction when the Vertical coordinate value is negative.
ORIENTATIONSTYLE	Ascending (Default) Descending Vertical Horizontal	Specifies the Orientation of the Text by position on the document page for AutoCenter Only.

Name	Values	Description
PAGES	<p>1, 3 5-7 10-</p> <p>First Even Odd Last All</p> <p>DOCN</p> <p>DOCN-</p> <p>TOC</p> <p>IDX</p> <p>DocInput Alias[1-]</p> <p>Error</p>	<p>Specifies the pages to add the watermark.</p> <p>Individual pages Range of pages inclusive Range to the end of the document</p> <p>First page only Even pages Odd pages Last page All pages</p> <p>Applies Watermark to the Nth document.</p> <p>Applies Watermark from the Nth document to the end of the final document.</p> <p>Applies Watermark to TOC Report.</p> <p>Applies Watermark to the index.</p> <p>Applies Watermark to the page range specified by the DocInput Alias.</p> <p>Applies Watermark to only the pages that are error related.</p>
POSITION	<p>AutoCenter (Default)</p> <p>AbsoluteCoordinates</p>	<p>Specifies the position of the Watermark on the Output document.</p> <p>Centers the Text on the Output document.</p> <p>Allows for User defined positioning of the Text. Please note the insertion point is with respect to the upper left corner of the page.</p>
PATTERNSTYLE	<p>Crosshatch Dots Horizontal None (Default) Vertical</p>	<p>Specifies the pattern used for the Text.</p>
PATTERNSIZE	<p>1 - 100 (Default = 50)</p>	<p>Specifies the size of the pattern selected.</p>
PATTERNDENSITY	<p>1 - 100 (Default = 50)</p>	<p>Specifies the density of the pattern selected.</p>

1- The units are inches for the Imperial measurement system and centimeters for the Metric measurement system set in the Regional Settings of the computer where Express is installed.

Figure 31 - Watermark

```
<JOB:WATERMARKS ENABLED="Yes">  
<JOB:WATERMARK ENABLED="Yes" FONTCOLOR="6447714" FONTNAME="Helvetica"  
  FONTSIZE="50" FONTSTYLE="Solid" HORIZONTAL="0" LAYER="Foreground"  
  PATTERNSTYLE="Dots" PATTERNSIZE="80" PATTERNDENSITY="50" OPACITY="50"  
  ORIENTATION="290" TEXT="Adlib Express Watermark" VERTICAL="0" PAGES="Odd"  
  POSITION="AutoCenter" ORIENTATIONSTYLE="Descending" FONTSIZEMODE="Percent"  
  FONTSIZEPERCENT="66" ALIGNMENT="BottomLeft" />  
</JOB:WATERMARKS>
```


XPS Settings (XPSSETTINGS)

XPS Settings allows users to define parameters for converting documents to XPS.

XPS MSExcel (XPSMSEXCEL)

The XPS MS Excel element allows the user to select the application used to convert MS Excel documents to XPS. MS Excel files can be rendered using MS Excel itself or via the Microsoft XPS Document Writer.

Table 132 – XPS MSExcel Attributes

Name	Values	Description
ENABLED	Yes	MS Excel is used to convert to XPS. (MS Excel must be installed.)
	No (Default)	The Microsoft XPS Document Writer is used to convert to XPS.

Note: Post-processing (Stamping, Transformations, etc) is not supported when XPSMSEXCEL is enabled.

XPS MSPowerPoint (XPSMSPowerPoint)

The XPS MS PowerPoint element allows the user to select the application used to convert MS PowerPoint documents to XPS. MS PowerPoint files can be rendered using MS PowerPoint itself or via the Microsoft XPS Document Writer.

Table 133 – XPS MSPowerPoint Attributes

Name	Values	Description
ENABLED	Yes	MS PowerPoint is used to convert to XPS. (MS PowerPoint must be installed.)
	No (Default)	The Microsoft XPS Document Writer is used to convert to XPS.

Note: Post-processing (Stamping, Transformations, etc) is not supported when XPSMSPowerPoint is enabled.

XPS MSWord (XPSMSWORD)

The XPS MS Word element allows the user to select the application used to convert MS Word documents to XPS. MS Word files can be rendered using MS Word itself or via the Microsoft XPS Document Writer.

Table 134 – XPS MSWord Attributes

Name	Values	Description
ENABLED	Yes	MS Word is used to convert to XPS. (MS Word must be installed.)

Name	Values	Description
	No (Default)	The Microsoft XPS Document Writer is used to convert to XPS.

Note: Post-processing (Stamping, Transformations, etc) is not supported when XPSMSWORD is enabled.

Figure 32 - XPS Settings

```
<JOB:XPSSETTINGS
  <JOB:XPSMSEXCEL ENABLED="Yes" />
  <JOB:XPSMSPowerPOINT ENABLED="No" />
  <JOB:XPSMSWORD ENABLED="Yes" />
</JOB:XPSSETTINGS>
```

Job Ticket Template (JOBTICKETTEMPLATE)

Job Ticket Templates allow the ability to specify a partial XML Job Ticket that contains settings that will map on top of the settings of the Job Ticket that specifies the template.

For example, a Job Ticket Template may contain Watermark, or Header/Footer settings.

Table 135 – Job Ticket Templates Attributes

Name	Values	Description
ENABLED	Yes No (Default)	Enable/Disable

Table 136 – Job Ticket Template Attributes

Name	Values	Description
ENABLED	Yes (Default) No	Enable/Disable the specific Template.
MODE	Merge (Default) Replace	This mode will read settings from the Template and append them to the XML Job Ticket. This mode will read settings from the Template and override the settings in the XML Job Ticket.
PATH	Text	Path to the XML Job Ticket Template.
STREAMENCODING	Base64 (Default)	Specifies the type of encoding the STREAM is comprised of.
STREAM	Text	The JOBTICKETTEMPLATE in an XML formatted stream.

Appendix A - Sample XML Job Tickets

Contact support for sample job tickets.

Alongside this user guide are several XML Job Ticket files, each of which is a specific example pertaining to a selection of the options of XML Job Tickets. They consist of:

Single Document.xml – Shows how to add a single document as an output.

Multiple Documents with PDF Security.xml – Shows how to add multiple documents for outputting and apply PDF Security.

Multiple Documents with Hyperlinks_Bookmarks.xml – Shows how to use hyper linking and book marking.

Multiple Documents with Watermark_Header_Footer_Overlay.xml – Shows how to add multiple documents for outputting using several common options.

Multiple Documents with TOC Report_Bookmarks.xml – Shows how to use Table of Contents for book marking.

TOC Report_Bookmarks With External Documents.xml – Shows how to add Table of Contents bookmarks with links to external documents.

Multiple Documents with OCR and Auto TOC

Report_Bookmarks_Watermark_Header_Footer_Overlay.xml – Shows how to add several common options as well as Table of Contents using the OCR.

Appendix B - Express Configuration

To set up Express for XML Job Ticket Processing, simply select DPI/XML Job Ticket Processing from the Processing tab in the Express options. Once selected, Express will only process files in the Input Folder that have a .XML extension and are Express XML Job Tickets. Please select start monitoring from the main screen in Express and ensure that Express is configured so that it is monitoring the Input Folder. The DTD file is located in the C:\Program Files\Adlib\Express\DTD\ folder, all XML Job Tickets must reference this DTD, however users may reference a custom DTD with defaults changed.

Appendix C - Validating XML Job Tickets

XML Job Tickets can be validated in a number of ways. Two easy methods are to use a special plug in for Internet Explorer or use Express. The plug-in tool for IE.5.0 and up can be downloaded from Microsoft to validate both the structure and syntax of an XML file by using the right click tools menu. It can be downloaded at <http://www.microsoft.com/downloads/details.aspx?FamilyId=D23C1D2C-1571-4D61-BDA8-ADF9F6849DF9&displaylang=en>. Express uses a very similar method when validating the XML files during processing. If the file is not validated, then the job ticket is sent to the error folder and valid information is placed within the process log.

Appendix D - Customizing the Express DTD

If using different configurations, custom DTDs are the easiest way to switch between these configurations. Each DTD file can have unique settings that can be reference by the XML Job Ticket. If you wish to modify the default settings in the Express DTD, you must copy the AdlibExpress.dtd and give it a new filename (e.g. MyAdlibExpress.dtd) and refer to this DTD inside your XML Job Ticket file (e.g. `<!DOCTYPE JOBS SYSTEM "C:\Adlib Express\DTD\MyAdlibExpress.dtd">`). It can be placed anywhere on the user's hard drive or a network hard drive as long as there is read access to the DTD. This also means that the DTD file can be placed on a file server as long as a complete URL is given (e.g. `<!DOCTYPE JOBS SYSTEM "http://www.Adlibsoftware.com/dtd/mycustomdtd.dtd">`). Please visit the World Wide Web Consortium (W3C) web site at www.w3c.org/XML for additional information on XML and DTDs. Note that if you should not modify anything other than the default settings. The only time when these DTD defaults are used, is when you have an element of the same name inside your XML file. The defaults will be loaded for that element alone but will be overwritten by any specific settings inside your XML file. If you wish to take advantage of all the default settings of your own personal DTD, then the element is required for each section you wish to be defaulted. **Figure 1 – Sample XML Job Ticket File** shows a document that takes advantage of every default found within the DTD. This figure shows every child element except for DESTEMAIL. DESTEMAIL has required fields that must be entered to pass validation. However, if you wish to customize your DTD and add defaults for this element, simply replace the #REQUIRED to #IMPLIED and change the defaults. Note that it is not required to have every element present within the XML file. Defaults will be used for options not defined within the XML file.

Appendix E – XML Version History

Version 2.5.2 (Express Version 4.1.0)

- Removed element SCRIPTSETTINGS from JOB element
- Added element SCRIPTS to JOB element
 - Added attribute ENABLED
- Added element SCRIPT to SCRIPTS element
 - Added attribute ENABLED
 - Added attribute EXECUTESCRIPTONERROR
 - Added attribute MODE
 - Added attribute PATH
 - Added attribute POSTJOBSCRIPTMODE
 - Added attribute STREAM
 - Added attribute STREAMSCRIPTFILENAME
- Added element SCRIPTARGUMENTS to SCRIPT element
- Added element SCRIPTARGUMENT to SCRIPTARGUMENTS element
 - Added attribute VALUE
- Added attribute CANCELJOBON0BYTEFILE to ERRORSETTINGS element

Version 2.5.0 (Express Version 4.0.0)

- Added element OVERLAYCROP to OVERLAY element
 - Added attribute MODE
 - Added attribute PADDINGBOTTOM
 - Added attribute PADDINGLEFT
 - Added attribute PADDINGRIGHT
 - Added attribute PADDINGTOP
- Added attribute to OVERLAY element
 - Added attribute MATCHPAGESIZE
 - Added attribute PAGENUMBERINGMODE

Version 2.4.0 (Express Version 3.9.5)

- Added XPS option to DOCTYPE attribute for DOCOUTPUT element
- Added attribute to FOOTERS element
 - Added attribute PRIORITY
- Added attribute to HEADERS element
 - Added attribute PRIORITY
- Added attribute to OVERLAYS element
 - Added attribute PRIORITY
- Added attribute to WATERMARKS element
 - Added attribute PRIORITY
- Added element XPSSETTINGS to SETTINGS element
- Added element XPSMSEXCEL to XPSSETTINGS element
 - Added attribute ENABLED
- Added element XPSMSPOWERPOINT to XPSSETTINGS element
 - Added attribute ENABLED
- Added element XPSMSWORD to XPSSETTINGS element
 - Added attribute ENABLED

Version 2.3.4 (Express Version 3.8.3)

- Added element MSVISIO to NATIVEAPPSETTINGS element
 - Added attribute PAGERANGE
- Added attribute to MSEXCEL element

- Added attribute PRINTWHAT
- Added element PDFPOUPNOTES to PDFSETTINGS element
 - Added attribute CREATECONTENTPDFPOUPNOTES
- Added element PDFVERSIONDOWNGRADE to PDFSETTINGS element
 - Added attribute ENABLED
 - Added attribute PDFVERSION
 - Added attribute ERRORFILEHANDLING
 - Added attribute LOGENABLED
 - Added attribute LOGPATH
 - Added attribute LOGFORMAT
- Added options to PDFTYPE attribute for PDFSETTINGS element
 - Added option PDFX-1a-2001
 - Added option PDFX-3-2002

Version 2.3.3 (Express version 3.8.2)

- Added attributes to DOCUMENTVALIDATION element
 - Added attribute CHECKFORUNSUPPORTEDBOOKMARKFONT
 - Added attribute UNSUPPORTEDBOOKMARKFONTFILEHANDLING

Version 2.3.2 (Express version 3.8.1)

- Added attribute to MSWORDHYPERLINKS element
 - Added attribute EXPANDNOTEREFHYPERLINKS
- Changed default value of attribute USEHTMLPARAGRAPHAUTOSPACING from "Yes" to "Automatic"

Version 2.3.1 (Express version 3.8.0)

- Added element ARCHIVESETTINGS to SETTINGS element
 - Added attribute SUBFOLDERNAME
- Added attributes to MSWORDHYPERLINKS element
 - Added attribute IGNORESAMEPAGEHYPERLINKS
- Added element MSWORDSETTINGS to SETTINGS element
 - Added attribute CREATETABLES
 - Added attribute CREATEHEADERSFOOTERS
 - Added attribute REMOVEIMAGES
- Added element RTFSETTINGS to SETTINGS element
 - Added attribute CREATETABLES
 - Added attribute CREATEHEADERSFOOTERS
 - Added attribute REMOVEIMAGES

Version 2.3.0 (Express version 3.7.2)

Version 2.2.13 (Express version 3.7)

Version 2.2.13 (Express version 3.5.9)

- Added attributes to NATIVEAPPSETTINGS element
 - Added attribute SUPPORTEDFILETYPES
- Added element IFTSSettings to SETTINGS element
 - Added attribute SUPPORTEDFILETYPES
- Added element EFTSSettings to SETTINGS element
 - Added attribute SUPPORTEDFILETYPES
- Added element HTMLSettings to SETTINGS element
 - Added attribute IMAGETYPE
 - Added attribute RESOURCEFILENAMEPREFIX

- Added attribute RESOURCEFOLDERNAME
 - Added attribute IMAGERESOLUTION
- Added element HTMLSPLIT to HTMLSettings element
 - Added attribute ENABLED
- Added element HTMLMSWORD to HTMLSettings element
 - Added attribute ENABLED
- Added element HTMLMSEXCEL to HTMLSettings element
 - Added attribute ENABLED
- Added element HTMLMSPOWERPOINT to HTMLSettings element
 - Added attribute ENABLED
- Added element MSWORDBOOKMARKGROUPS to MSWORDBOOKMARKS element
 - Added attribute NAME
 - Added attribute PARENTBOOKMARKTEXT
- Added element MSWORDSEQFIELDS to MSWORDBOOKMARKS element
 - Added attribute LABEL
 - Added attribute LEVEL
 - Added attribute GROUPNAME
- Added attributes to MSWORDSTYLE element
 - Added attribute GROUPNAME
- Added attributes to MSWORDHYPERLINKS element
 - Added attribute LINEWRAPMERGING
- Added element MSWORDMARKUPOPTIONS to MSWORD element
 - Added attribute VIEWMODE
 - Added attribute SHOWALLREVIEWERS
 - Added attribute SHOWCOMMENTS
 - Added attribute SHOWFORMATTING
 - Added attribute SHOWINKANNOTATIONS
 - Added attribute SHOWINSERTIONSANDDELETIONS

Version 2.2.12 (Express version 3.5.6)

- Fixed default setting for OCRLOGSETTINGS DOCUMENTLOGFORMAT (TXT)
- Fixed default setting for OCRLOGSETTINGS PROCESSLOGFORMAT (TXT)

Version 2.2.11 (Express version 3.5.1)

- Added attributes to OCRSETTINGS element
 - Added attribute SPLITMODE
 - Added attribute SPLITPAGESPERSECTION
- Added attributes to OCRLOGSETTINGS element
 - Added attribute PROCESSLOGFORMAT
 - Added attribute DOCUMENTLOGFORMAT
- Added element PDFPREFLIGHT to PDFSETTINGS element
 - Added attribute ENABLED
 - Added attribute ERRORFILEHANDLING

Version 2.2.10 (Express version 3.5.0)

- Added element PDFPREFLIGHT to PDFSETTINGS element
 - Added attribute PROFILE
 - Added attribute LOGENABLED
 - Added attribute LOGPATH
 - Added attribute LOGFORMAT
- Added Automatic option to PAGESIZE attribute for TEXTCONVERSION element

Version 2.2.9 (Express version 3.2.31)

- Added DigitalSignatureFields option to TYPE attribute for PDFINFO element
- Added attributes to PDFSETTINGS element
 - Added attribute PDFTYPE

Version 2.2.8 (Express version 3.2.30)

- Added attributes to SCRIPTSETTINGS element
 - Added attribute POSTDOCUMENTSCRIPTMODE
- Added attributes to OCRSETTINGS element
 - Added attribute SPLITMODE
 - Added attribute SPLITPAGESPERSECTION
- Added None option to FONTSTYLE attribute for WATERMARK element

Version 2.2.7 (Express version 3.2.29)

- Added attributes to TRANSFORMATION element
 - Added attribute PAGES
- Added attributes to PDFSETTINGS element
 - Added attribute INCREMENTALSAVE

Version 2.2.6 (Express version 3.2.24)

- Added attributes to PDFSETTINGS element
 - Added attribute COLORMODEL

Version 2.2.5 (Express version 3.2.24)

- Added attributes to CADCONVERSION element
 - Added attribute ACTUALPAGESIZE

Version 2.2.4 (Express version 3.2.24)

- Added DocumentTitle option to DOCUMENTBOOKMARKTEXTMODE attribute for elements BOOKMARKS, BOOKMARK, TOC, TOCITEM
- Added element MSEXCEL to NATIVEAPPSETTINGS element
 - Added attribute PAGETO
 - Added attribute PAGEFROM
- Added attributes to MSPowerPoint element
 - Added attribute PAGES
- Added attributes to PDFINFOFILES element
 - Added attribute PATH
 - Added attribute TYPE
- Added attributes to TEXTSETTINGS element
 - Added attribute NOSOURCETEXTHANDLING

Version 2.2.3 (Express version 3.2.24)

- Removed Envelope option from the PRINTTYPE attribute in the MSWORD element

Version 2.2.2 (Express version 3.2.23)

- Added attributes to LOGSETTINGS element
 - Added attribute PROCESSLOGFORMAT
 - Added attribute PROCESSLOGRETENTIONMODE
- Added element GHOSTSCRIPT to NATIVEAPPSETTINGS element
 - Added attribute EPSFITTOPAGE
- Added element MSWORD to NATIVEAPPSETTINGS element
 - Added attribute ALLOWA4LETTERPAGESIZE
 - Added attribute USEPRINTERMETRICS
 - Added attribute USEHTMLPARAGRAPHAUTOSPACING

- Added attribute FLATTENFORMFIELDS
- Added attribute PRINTTYPE
- Added element SYMWINFAX to NATIVEAPPSETTINGS element
 - Added attribute ORIENTATION
 - Added attribute PAGESIZE

Version 2.2.1 (Express version 3.2.22)

- Added attributes to DOCOUTPUT element
 - Added attribute ARCHIVEMODE
 - Added attribute ARCHIVEFILENAME
- Added attributes to LOGSETTINGS element
 - Added attribute DOCUMENTLOGFORMAT
 - Added attribute PROCESSLOGRETENTIONMODE

Version 2.2.0 (Express version 3.2.21)

- Minor comment changes for the IMAGESPLIT and TEXTSPLIT elements

Version 2.1.9 (Express version 3.2.20)

- Added values to PDFVERSION attribute
 - Added value PDFVersion1.6

Version 2.1.8 (Express version 3.2.19)

- Added attributes to FOOTER element
 - Added attribute FONTEXTENDED BOLD
 - Added attribute FONTEXTENDED ITALIC
- Added attributes to HEADER element
 - Added attribute FONTEXTENDED BOLD
 - Added attribute FONTEXTENDED ITALIC
- Added attributes to TOCSTYLE element
 - Added attribute FONTEXTENDED BOLD
 - Added attribute FONTEXTENDED ITALIC
- Added attributes to WATERMARK element
 - Added attribute FONTEXTENDED BOLD
 - Added attribute FONTEXTENDED ITALIC
- Added attributes to TOCITEM element
 - Added attribute MULTILINEPAGEBREAKTHRESHOLD

Version 2.1.7 (Express version 3.2.18)

- Added attribute to OVERLAY element
 - Added attribute SEARCHTEXT

Version 2.1.6 (Express version 3.2.16)

- Added attribute to MSWORDHYPERLINKS element
 - Added attribute DISPLAYSTYLEMODE

Version 2.1.5 (Express version 3.2.15)

- Added element INSERTFORMFIELDS to INSERT element
- Added element INSERTFORMFIELD to INSERTFORMFIELDS element
 - Added attribute FIELD
 - Added attribute VALUE

Version 2.1.4 (Express version 3.2.8)

- Added attribute to FOOTER element

- Added attribute FONTNAMEEXTENDED
- Added attribute to HEADER element
 - Added attribute FONTNAMEEXTENDED
- Added attribute to TOCSTYLE element
 - Added attribute FONTNAMEEXTENDED
- Added attribute to WATERMARK element
 - Added attribute FONTNAMEEXTENDED
- Added attributes to MSOUTLOOK element
 - Added attribute CREATEXMLLOG
 - Added attribute PDFATTACHMENTDOCUMENTTYPE

Version 2.1.3 (Express version 3.2.6)

- Added attributes to HEADERS element
 - Added attribute BACKGROUNDColor
 - Added attribute BACKGROUNDpaddinghorizontal
 - Added attribute BACKGROUNDpaddingvertical
 - Added attribute BACKGROUNDstyle
- Added attributes to FOOTERS element
 - Added attribute BACKGROUNDColor
 - Added attribute BACKGROUNDpaddinghorizontal
 - Added attribute BACKGROUNDpaddingvertical
 - Added attribute BACKGROUNDstyle
- Added attributes to MSOUTLOOK element
 - Added attribute ATTACHMENTHANDLING
 - Added attribute CONVERSIONMODE

Version 2.1.2 (Express version 3.2.5)

- Moved JOBTICKETTEMPLATES element under the JOBS element
- Added JOBTICKETTEMPLATE element under the JOBTICKETTEMPLATES element
 - Added attribute STREAMCODING, Base64 by default
 - Added attribute STREAM

Version 2.1.1 (Express version 3.2.4)

- Added attribute to PDFSETTINGS element
 - Added attribute MERGEblankpages
- Added attributes to BOOKMARKS element
 - Added attribute DOCUMENTBOOKMARKERRORTEXTMODE
 - Added attribute DOCUMENTBOOKMARKERRORTEXT
- Added attributes to MSWORDBOOKMARKS element
 - Added attribute BOOKMARKDESTINATION
 - Added attribute ORPHANBOOKMARKMODE
 - Added attribute PAGEBOTTOMOFFSET
 - Added attribute PAGETOPOFFSET
 - Added attribute PARENTBOOKMARKTEXT
- Added ERRORDOCREFERENCENAME to the ERROSETTINGS element
- Moved attribute INCLUDESECTIONNUMBERING from MSWORDSTYLES element to MSWORDBOOKMARKS element
- Added MSWORDHYPERLINKS element to HYPERLINKS element
 - Added attribute DISPLAYCOLOR
 - Added attribute DISPLAYSTYLE
 - Added attribute HYPERLINKDESTINATION
 - Added attribute PAGEBOTTOMOFFSET

- Added attribute PAGETOPOFFSET
- Added value to PAGELAYOUT attribute under the OPENSETTINGS element
 - Added value Default
- Added attribute to OPENSETTINGS element
 - Added attribute ONLYDISPLAYBOOKMARKSPANEIFBOOKMARKSEXIST
- Added attributes to TOC element
 - Added attribute DOCUMENTBOOKMARKERRORTXTMODE
 - Added attribute DOCUMENTBOOKMARKERRORTXT

Version 2.1.0 (Express version 3.2.0)

- Added support for Unicode XML Job Tickets
- Added attribute APPLYAFTERTRANSFORMATION to: Header, Footer, Overlay and Watermark.
- Added Name option to PAGES attribute for Header, Footer, Overlay, Watermark, OpenSettings, PDFSettings, PDFAttachment, Insert, SignatureField, Hyperlink
- Added new attributes to the JOBS element
 - Added attribute MEASUREMENTSYSTEM, LocalMachine by default, also can be set to Defined
 - Added attribute MEASUREMENTUNIT, Inches by default, this attribute is only evaluated if MEASUREMENTSYSTEM is set to Defined
- Added INSERTS element to the JOB element
 - Added attribute ENABLED, Yes by default
 - Added attribute PRINTERMAKE, XeroxDocuTech by default
- Added INSERT element to the INSERTS element
 - Added attribute INSERTSTYLENAME, determines the INSERTSTYLE that is applied to the INSERT
 - Added attribute PRINTERCOMMANDNAME, determines the PRINTERCOMMAND that applies to the INSERT
 - Added attribute MEDIATYPEDETAILS
 - Added attribute PAGE, determines the page to which the INSERT will be placed in the resulting document
 - Added attribute TABTEXT, determines the text to be applied to the Tab form fields in a document template PDF
- Added INSERTSTYLES element to the INSERTS element
 - Added attribute NAME, the alias for the INSERTSTYLE
 - Added attribute DOCCREFERENCENAME, determines the DOCCREFERENCE that the INSERTSTYLE is based on
 - Added attribute MEASUREMENTUNIT, Inches by default, specifies the unit of measurement to be used when assigning the PAGEHEIGHT and PAGEWIDTH attributes
 - Added attribute PAGEHEIGHT, the page height
 - Added attribute PAGEWIDTH, the page width
- Added DOCCREFERENCES element to the JOB element
 - Added attribute DOCTEMPLATEMAPPATH, defines the path to an XML file that resolves Internal DOCCREFERENCE paths
- Added DOCCREFERENCE element to the DOCCREFERENCES element
 - Added attribute NAME, the alias for the DOCCREFERENCE
 - Added attribute MODE, External by default, determines how to resolve the DOCCREFERENCE (Blank = blank sheet, Internal = Doc Template Map XML, External = PATH attribute)
 - Added attribute PATH, if the MODE is set to External the full path location to the DOCCREFERENCE is defined here

- Added attribute DOCINPUTNAME, if the DOCREFERENCE is related (e.g. a support file) to a DOCINPUT the NAME of the DOCINPUT is defined here
- Added attribute RELATIVEPATH, used if the DOCREFERENCE is a support file that requires itself to be at a location relative to the DOCINPUT
- Added attribute DOCTEMPLATENAME, if the MODE is set to Internal the alias of the DOCTEMPLATE is defined here
- Added attribute PAGEHEIGHT, used if the MODE is set to Blank
- Added attribute PAGEWIDTH, used if the MODE is set to Blank
- Added JOBTICKETTEMPLATES element to the JOB element
 - Added attribute ENABLED, Yes by default
- Added JOBTICKETTEMPLATE element to the JOBTICKETTEMPLATES element
 - Added attribute MODE, Merge by default, determines how XML Job Ticket settings in a Job Ticket Template file are applied
 - Added attribute PATH, the full path to the Job Ticket Template file
- Added PRINTERS element to the JOB element
 - Added attribute MAKE, XeroxDocuTech by default
- Added PRINTERCOMMANDS element to the PRINTERS element
 - Added attribute OUTPUTPATH, the full path to the Printer Commands file that is to be generated
- Added PRINTERCOMMAND element to the PRINTERCOMMANDS element
 - Added attribute NAME, the alias of the PRINTERCOMMAND
 - Added Attribute TEXT, the string that contains Printer Command information
- Added ASSOCIATEDINDEX element to the PDFSETTINGS element
 - Added attribute ENABLED, Yes by default
 - Added attribute PATH, the full path location to the Associated Index

Version 2.0.0 (Express version 3.0.0)

- Moved DESTINATIONS element and all its attributes to the DOCOUTPUT element.
- Added optional attribute NUMBEROFCOPIES to the DESTPRINTER element to determine how many copies are to be printed.
- Added optional attribute URI to the DESTURI element to determine the location of the URI, it contains the full path and takes precedent over the host/protocol option.
- Changed the following attributes in the DESTEMAILS element
 - Changed attribute SMTPSERVER to: SERVERNAME
 - Changed attribute SMTPPORT to: SERVERPORT
 - Changed attribute SMTPUSERNAME to: USERNAME
 - Changed attribute SMTPPASSWORD to: PASSWORD
- Added new attributes to the LOGSETTINGS element
 - Added attribute DOCUMENTLOGENABLED, Yes by default, can be disabled with No
 - Added attribute DOCUMENTLOGRETAINHISTORY, No by default, can be enabled with Yes, retains the document log
 - Added attribute DOCUMENTLOGCOMPRESSTOZIP, Yes by default, can be disabled with No, compresses any retained document log
 - Added attribute DOCUMENTLOGENABLED, Yes by default, can be disabled with No
 - Added attribute PROCESSLOGMAXFILESIZE, how large to allow the process log to become
 - Added attribute PROCESSLOGCOMPRESSTOZIP, Yes by default, can be disabled with No, compresses any retained document log
- Added EMAILNOTIFICATION element to the LOGSETTINGS element
 - Added attribute ENABLED, No by default, can be enabled with Yes
 - Added attribute EMAILTO, where to e-mail to
 - Added attribute EMAILCC, where to cc the e-mail to

- Added attribute EMAILFROM, who the e-mail was from
 - Added attribute EMAILSUBJECT, the e-mail subject
 - Added attribute EMAILMESSAGE, the e-mail message
- Added LOGOUTBOXSETTINGS element to the EMAILNOTIFICATION element
 - Added attribute ENABLED, No by default, can be enabled with Yes
 - Added attribute USERNAME, outbox username to use
 - Added attribute PASSWORD, outbox password to use
- Added LOGSMTPSETTINGS element to the EMAILNOTIFICATION element
 - Added attribute ENABLED, No by default, can be enabled with Yes
 - Added attribute SERVERNAME, the SMTP server
 - Added attribute SERVERPORT, the SMTP port
 - Added attribute USERNAME, SMTP username to use
 - Added attribute PASSWORD, SMTP password to use
- Added URINOTIFICATION element to the LOGSETTINGS element
 - Added attribute ENABLED, No by default, can be enabled with Yes
 - Added attribute MODE, will be used for future development
 - Added attribute REQUESTTYPE, the type of protocol used
 - Added attribute URI, where to put/post the log files
 - Added attribute WEBMETHODPARAMETERNAME, parameters sent to a web service
- Added optional attribute MERGE to the SETTINGS element to determine whether or not to merge the input files.
- Renamed attribute PAGEIDNEXT to attribute PAGEIDNEXT in the BATESNUMBERING element.
- Renamed element BATESNUMBERING to element PAGEIDENTIFICATION in the SETTINGS element.
- Added BOOKMARKS element to the SETTINGS element
 - Added attribute ENABLED, Yes by default, can be disabled with No
 - Added attribute CREATEDOCUMENTBOOKMARKS, Yes by default, can be disabled with No
 - Added attribute DOCUMENTBOOKMARKTEXTMODE, determines how the bookmark is to be displayed
 - Added attribute EXPANDEDBOOKMARKLEVELMODE, determines which bookmarks to expand, all, a defined set, or none.
 - Added attribute EXPANDEDBOOKMARKLEVEL, determines what level to expand the bookmarks to
 - Added attribute MAXLEVEL, how many levels to bookmark
- Added BOOKMARK element to the BOOKMARKS element
 - Added attribute CONTENTBOOKMARKS, Yes by default, can be disabled with No
 - Added attribute CREATEDOCUMENTBOOKMARK, Yes by default, can be disabled with No
 - Added attribute DOCUMENTBOOKMARKTEXTMODE, determines how the bookmark is to be displayed
 - Added attribute LEVEL, what level the new bookmark is to be placed at
 - Added attribute TEXT, what the bookmark will be named
- Added BOOKMARKDESTINATION element to the BOOKMARK element
 - Added attribute ADDRESS, where the bookmark links to
 - Added attribute ADDRESSTYPE, what type of bookmark
 - Added attribute PAGENUMBER, which page to link to (PDF only)
 - Added attribute PAGEX, x coordinate of the page (PDF only)
 - Added attribute PAGEY, y coordinate of the page (PDF only)
- Added CONTENTBOOKMARKS element to the BOOKMARKS element
- Added MSEXCELBOOKMARKS element to the CONTENTBOOKMARKS element

- Added attribute CREATEBOOKMARKS, No by default, can be enabled with Yes
- Added MSWORDBOOKMARKS element to the CONTENTBOOKMARKS element
 - Added attribute CREATEBOOKMARKS, No by default, can be enabled with Yes
- Added MSWORDSTYLES element to the MSWORDBOOKMARKS element
 - Added attribute INCLUDESECTIONNUMBERING, No by default, can be enabled with Yes
- Added MSWORDSTYLE element to the MSWORDBOOKMARKS element
 - Added attribute STYLE, the style to be used
 - Added attribute LEVEL, the level the style is to be applied on
- Added PDFBOOKMARKS element to the CONTENTBOOKMARKS element
 - Added attribute RETAINEXISTINGBOOKMARKS, Yes by default, can be disabled with No
- Added DOCUMENTVALIDATION element to the SETTINGS element
 - Added attribute ENABLED, No by default, can be enabled with Yes
 - Added attribute CANCELONMISSINGRESOURCES, No by default, can be enabled with Yes
 - Added attribute MISSINGRESOURCESFILEHANDLING, determines where the files is placed on missing resource error
 - Added attribute CANCELONMISSINGFONTS, No by default, can be enabled with Yes
 - Added attribute MISSINGFONTSFILEHANDLING, determines where the files is placed on missing font error
 - Added attribute CANCELONPAGINATIONERROR, No by default, can be enabled with Yes
 - Added attribute PAGINATIONERRORTHRESHOLD, how many pages can be invalid
 - Added attribute PAGINATIONERRORFILEHANDLING, determines where the files is placed on page error
- Added ERRORSETTINGS element to the SETTINGS element
 - Moved attribute CANCELJOBONCONVERSIONERROR from the SETTINGS element, Yes by default, can be disabled with No
 - Added attribute CANCELJOBONMISSINGDOCINPUT, Yes by default, can be disabled with No
- Added optional attribute OPACITY to the FOOTER element to determine the opacity of the text of the footer.
- Added optional attribute ORIENTATION to the FOOTER element to determine the orientation of text of the footer.
- Added optional attribute OPACITY to the HEADER element to determine the opacity of the text of the header.
- Added optional attribute ORIENTATION to the HEADER element to determine the orientation of text of the header.
- Added HYPERLINKS element to the SETTINGS element
 - Added attribute ENABLED, No by default, can be enabled with Yes
 - Added attribute CREATECONTENTHYPERLINKS, determines if existing links are to be copied
 - Added attribute INHERITAPPEARANCE, determines if appearance is to be inherited
- Added HYPERLINK element to the HYPERLINKS element
 - Added attribute PAGENUMBER, what page to insert the hyperlink
 - Added attribute PAGEX, bottom left x co-ordinate
 - Added attribute PAGEY, bottom left y co-ordinate
 - Added attribute WIDTH, width of the hyperlink to be created
 - Added attribute HEIGHT, height of the hyperlink to be created
- Added HYPERLINKAPPEARANCE element to the HYPERLINK element

- Added attribute DISPLAYCOLOR, determines color of the hyperlink
- Added attribute DISPLAYSTYLE, determines style of the hyperlink
- Added attribute DISPLAYTYPE, determines whether the hyperlink is visible or invisible
- Added attribute DISPLAYWIDTH, determines the width of the hyperlink
- Added HYPERLINKDESTINATION element to the HYPERLINK element
 - Added attribute ADDRESS, the address of the hyperlink
 - Added attribute ADDRESSTYPE, determines the type of address of the hyperlink
 - Added attribute PAGENUMBER, determines which page of the PDF that the hyperlink will link to
 - Added attribute PAGEX, determines the x co-ordinate of the PDF that the hyperlink will link to
 - Added attribute PAGEY, determines the y co-ordinate of the PDF that the hyperlink will link to
- Added HYPERLINKSAPPEARANCE element to the HYPERLINKS element
 - Added attribute DISPLAYCOLOR, determines color of the hyperlink
 - Added attribute DISPLAYSTYLE, determines style of the hyperlink
 - Added attribute DISPLAYTYPE, determines whether the hyperlink is visible or invisible
 - Added attribute DISPLAYWIDTH, determines the width of the hyperlink
- Removed attribute MERGEOUTPUT from the IMAGESETTINGS element.
- Removed enumeration PNGMonochrome from attribute COMPRESSION found in the IMAGESETTINGS element.
- Removed enumeration PNG4BitColor from attribute COMPRESSION found in the IMAGESETTINGS element.
- Removed enumeration PNG8BitColor from attribute COMPRESSION found in the IMAGESETTINGS element.
- Removed enumeration PNG8BitGrayscale from attribute COMPRESSION found in the IMAGESETTINGS element.
- Removed enumeration TIFFPackBitsGrayscale from attribute COMPRESSION found in the IMAGESETTINGS element.
- Removed enumeration TIFFRGBTrueColor from attribute COMPRESSION found in the IMAGESETTINGS element.
- Added PNGGrayscale, PNGColor, TIFFColorPackBit, TIFFColorLZW and TIFFColorUncompressed to the enumeration found in the COMPRESSION attribute found in the IMAGESETTINGS element.
- Added IMAGESPLIT element to the IMAGESETTINGS element
 - Added attribute ENABLED, No by default, can be enabled with Yes
- Added optional attribute EXPANDEDBOOKMARKLEVELMODE to the INDEX element to determine which bookmarks to expand, all, a defined set, or none.
- Added optional attribute EXPANDEDBOOKMARKLEVEL to the INDEX element to determine what level of bookmarks to expand to.
- Added LOTUSNOTES element to the NATIVEAPPSETTINGS element
 - Added attribute PROCESSATTACHMENTS, Yes by default, can be disabled with No
- Added MSOUTLOOK element to the NATIVEAPPSETTINGS element
 - Added attribute PROCESSATTACHMENTS, Yes by default, can be disabled with No
- Renamed attribute USERDICTIONARY to attribute USERDICTIONARYPATH in the OCRSETTINGS element.
- Renamed attribute OCRPROCESSINGINFORMATIONFILE to attribute OPIPATH in the OCRSETTINGS element.
- Added optional attribute ONERROROUTPUTASIMAGEONLYPDF to the OCRSETTINGS element to determine if OCR fails to make the file and image only file.
- Added new attributes to the OCRLOGSETTINGS element

- Added attribute DOCUMENTLOGENABLED, Yes by default, can be disabled with No
- Added attribute DOCUMENTLOGRETAINHISTORY, No by default, can be enabled with Yes, retains the document log
- Added attribute DOCUMENTLOGCOMPRESSTOZIP, Yes by default, can be disabled with No, compresses any retained document log
- Added attribute DOCUMENTLOGENABLED, Yes by default, can be disabled with No
- Added attribute PROCESSLOGMAXFILESIZE, how large to allow the process log to become
- Added attribute PROCESSLOGCOMPRESSTOZIP, Yes by default, can be disabled with No, compresses any retained document log
- Renamed attribute FILENAME to attribute PATH in the OVERLAY element.
- Renamed attribute FILE to attribute PATH in the OVERLAY element.
- Added optional attribute HORIZONTAL to the OVERLAY element to determine the horizontal location of the bottom left corner of the overlay.
- Added optional attribute VERTICAL to the OVERLAY element to determine the vertical location of the bottom left corner of the overlay.
- Added new attributes to the PDFINFOSETTINGS element
 - Added Word option from the STYLE attribute
 - Added attribute TYPE, what type of info to extract
 - Added attribute FORMAT, which format to be used, XML or CSV
 - Added attribute ENCODING, which encoding to use
 - Added attribute CSVDELIMITER, determines what the delimiter is
 - Added attribute CSVHEADINGS, No by default, can be enabled with Yes
- Removed Automatic option from the PDFVERSION attribute in the PDFSETTINGS element.
- Removed attribute BOOKMARKS from the PDFSETTINGS element.
- Removed attribute DOCUMENTBOOKMARKS from the PDFSETTINGS element.
- Removed attribute MERGEOUTPUT from the PDFSETTINGS element.
- Removed attribute DOCUMENTHYPERLINKS from the PDFSETTINGS element.
- Added optional attribute PDFVERSIONINHERIT to the PDFSETTINGS element to determine whether or not to inherit the version of the PDF from an input file, defaulted to No.
- Removed BOOKMARKSTYES element and its contents from the PDFSETTINGS element.
- Removed attribute EXPANDEDBOOKMARKLEVELMODE from the OPENSETTINGS element.
- Removed attribute EXPANDEDBOOKMARKLEVEL from the OPENSETTINGS element.
- Renamed attribute FILE to attribute PATH in the PDFATTACHMENT element.
- Added PDFSPLIT element to the PDFSETTINGS element
 - Added attribute ENABLED, No by default, can be enabled with Yes
 - Added attribute MODE, determines how to split the image
 - Added attribute MAXFILESIZE, determines how large a split file can be
 - Added attribute NUMBEROFFILES, determines how many split files there can be
 - Added attribute PAGESPERFILE, determines how many page per file
- Added SIGNATURE element to the PDFSETTINGS element
 - Added attribute ENABLED, No by default, can be enabled with Yes
 - Added attribute FIELDNAME, determines the name of the field
 - Added attribute MODE, determines which mode to make the signature in
- Added SIGNATUREAPPEARANCE element to the SIGNATURE element
 - Added attribute SIGNATUREIMAGEPATH, path to the signature picture
 - Added attribute LOGOIMAGEPATH, path to the signature logo (background)
 - Added attribute TEXT, signature text
- Added SIGNATURECERTIFICATE element to the SIGNATURE element
 - Added attribute PATH, path to the signature certificate
 - Added attribute PASSWORD, password to use the certificate

- Added SIGNATUREDATA element to the SIGNATURE element
 - Added attribute DIGESTENCODING, the encoding to use for the signature
 - Added attribute FILTER, Filter to use on the data
 - Added attribute SUBFILTER, Sub filter to use on the data
 - Added attribute LENGTH, length of the data (first pass)
 - Added attribute VALUE, value of the data (second pass)
- Added SIGNATUREPROPERTIES element to the SIGNATURE element
 - Added attribute NAME, name of person using the signature
 - Added attribute REASON, reason using the signature
 - Added attribute LOCATION, location of person using the signature
 - Added attribute CONTACTINFO, contact info of person using the signature
- Added SIGNATUREPROPERTIESSAFE element to the SIGNATURE element
 - Added attribute DICTIONARY, dictionary object to use
 - Added attribute CVRLENGTH, length of the CVR data
 - Added attribute CVRVALUE, values of the CVR data
- Added optional attribute INSERTPAGEBREAKS to the TEXTSETTINGS element to determine whether or not to include page breaks, defaulted to no.
- Removed attribute MERGEOUTPUT from the TEXTSETTINGS element.
- Added TEXTSPLIT element to the TEXTSETTINGS element
 - Added attribute ENABLED, No by default, can be enabled with Yes
- Removed attribute BOOKMARK from the TOC element.
- Removed attribute TOCREPORT from the TOC element.
- Removed attribute TOCREPORTSETTINGS from the TOC element.
- Added new attributes to the TOC element
 - Added attribute ENABLED, No by default, can be enabled with Yes
 - Added attribute CREATETOCBOOKMARK, Yes by default, can disabled with No
 - Added attribute DOCUMENTBOOKMARKS, Yes by default, can disabled with No
 - Added attribute DOCUMENTBOOKMARKTEXTMODE, how the bookmarks are shown
 - Added attribute CONTENTBOOKMARKS, Yes by default, can disabled with No
 - Added attribute HYPERLINKDISPLAYSTYLE, how the hyperlinks are displayed
 - Added attribute INSERTIONPAGENUMBER, which page the table of contents will be placed on
 - Added attribute MARGINBOTTOM, bottom margin of the table of contents
 - Added attribute MARGINRIGHT, right margin of the table of contents
 - Added attribute MARGINLEFT, left margin of the table of contents
 - Added attribute MARGINTOP, top margin of the table of contents
 - Added attribute MAXLEVEL, number of levels of bookmarks
 - Added attribute ORIENTATION, orientation of the table of contents
 - Added attribute PAGESIZE, page size of the table of contents
 - Added attribute SHOWPAGENUMBERS, Yes by default, can disabled with No
 - Added attribute TABLEADERSTYLE, tab leader between items and page numbering
- Moved TOCFOOTER element to the TOC element
 - Added attribute ENABLED, Yes by default, can disabled with No
 - Added attribute OPACITY, specifies the transparency/opacity of the text
 - Added attribute ORIENTATION, specifies the orientation of the text
 - Added attribute PAGES, specifies which page the text is placed on
 - Added attribute PAGENUMBERINGMODE, specifies how the pages numbering is inserted
- Moved TOCHEADER element to the TOC element
 - Added attribute ENABLED, Yes by default, can disabled with No
 - Added attribute OPACITY, specifies the transparency/opacity of the text

- Added attribute ORIENTATION, specifies the orientation of the text
- Added attribute PAGES, specifies which page the text is placed on
- Added attribute PAGENUMBERINGMODE, specifies how the pages numbering is inserted
- Added new attributes to the TOCITEM element found within the TOC element
 - Added attribute DOCUMENTBOOKMARK, Yes by default, can be disabled with No
 - Added attribute DOCUMENTBOOKMARKTEXTMODE, determines how the bookmark is to be displayed
 - Added attribute DOCUMENTCONTENTBOOKMARKS, Yes by default, can disabled with No
 - Added attribute LEVEL, what level the new bookmark is to be placed at
 - Renamed attribute DOCUMENTCONTENTBOOKMARKS to attribute CONTENTBOOKMARKS
 - Removed attribute BOOKMARK
 - Removed attribute TOCREPORT
 - Removed attribute STYLE
 - Removed attribute CHILDBOOKMARKSFILENAME
- Added TOCITEMDESTINATION element to the TOCITEM element
 - Added attribute ADDRESS, where the bookmark links to
 - Added attribute ADDRESSTYPE, what type of bookmark
 - Added attribute PAGENUMBER, which page to link to (PDF only)
 - Added attribute PAGEX, x coordinate of the page (PDF only)
 - Added attribute PAGEY, y coordinate of the page (PDF only)
- Added TOCLEVELS element to the TOC element
- Added TOCLEVEL element to the TOCLEVELS element
 - Added attribute INDENTATION, the bookmark level
 - Added attribute STYLE, the style of that bookmark level
- Removed attribute INDENTATION from the TOCSTYLE element.
- Removed TOCFOOTER element and its contents from the TOC element.
- Removed TOCHEADER element and its contents from the TOC element.
- Removed attribute FONTSIZEMAX from the WATERMARK element.
- Added optional attribute ALIGNMENT to the WATERMARK element to determine the alignment of the watermark text.
- Added optional attribute FONTSIZEMODE to the WATERMARK element to determine which font size to use, percentage based or absolute.
- Added optional attribute FONTSIZEPERCENT to the WATERMARK element to determine what percent of the document the watermark should be.
- Added additional options to attribute ORIENTATIONSTYLE in the WATERMARK element

Note: Contact Adlib for Version History prior to Express 3.0.0.

Appendix F – FAQ (Troubleshooting)

Question:

Why does the XML Job Ticket itself get rendered to PDF?

Answer:

Please select "Enable DPI/XML Job Ticket Processing" from the Processing tab in the Express options screen.

Question:

Why do the created documents have an evaluation watermark on them?

Answer:

Your version of Express has not been registered. Please make sure your Express is registered, to purchase a license, please see sales in the contact section (**Appendix I - Contact Adlib**).

Question:

Why does the XML Job Ticket remain in the Input Folder?

Answer:

Please select start monitoring from the main screen in Express and ensure that Express is configured so that it is monitoring the Input Folder.

Question:

The XML Job Ticket is processed but the created documents (PDF, TXT,...) are not in the Output Folder?

Answer:

Check the path of the XML Job Ticket's DOCOUTPUT FOLDER attribute, this is where the documents are created when successfully processed.

Question:

Why does the XML Job Ticket not validate?

Answer:

When using Express, the XML Job Ticket fails validation due to syntax errors within the XML file. The XML Job Ticket will be put in the error folder with line and position references to where the Job Ticket failed validation. If using the Internet Explorer tool, a message box will pop up with the line and position references if the file does not validate.

Question:

Why was the XML Job Ticket moved to the Error Folder?

Answer:

Check the error log, the XML Job Ticket either failed validation or failed processing. Check the error log to see if the Job Ticket was validated, if it was not, a line and position reference will be given where the Job Ticket failed. However, if it was a processing error, check the error logs to see which type of error (such as File Not Found or Access Denied). Contact customer support (**Appendix I - Contact Adlib**) if a successful solution is not found.

Appendix G - Special Characters

There are a few special characters that must be handled if used within an attribute. To use one of these special characters, simply place an ampersand followed by the name of the character that is to be used followed by a semicolon.

Table 137 - Character Entities

Symbol	Name	Description
&	amp	Ampersand
'	apos	Apostrophe/Single quote
>	gt	Greater than sign
<	lt	Less than sign
"	quot	Double quotation mark

Figure 33 - Using Special Characters within XML Job Tickets

```
<JOB:HEADER ENABLED="Yes" TEXTCENTER="Header Center Line 1<CR>Header  
Center Line 2 &" />
```


Appendix H - XML Job Ticket Errors

If errors are encountered during the processing of a XML Job Ticket file, the error message is found within the Express process log to assist in diagnosing the problem (See **Figure 34 - Processed XML Job Ticket File with Error**). The error log will refer to the exact line and position if the XML file was unable to validate or would give the error code and description if an error occurred while processing the job ticket. The XML Job Ticket file and referenced files that reside inside the Input Folder will be moved to the Error Folder.

Figure 34 - Processed XML Job Ticket File with Error

```
2004/04/12    2:20:07 PM    Error - XML Error - Line 24, Position 116 -  
Element content is invalid according to the DTD/Schema.
```


Appendix I - Contact Adlib Software

Please contact Adlib Software if you have any questions or comments.

Web: www.adlibsoftware.com

E-mail: info@adlibsoftware.com for General Inquiries
sales@adlibsoftware.com for Sales Support
support@adlibsoftware.com for Technical Support

Phone: 905-631-2875

Fax: 905-639-3540

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