Oracle® Documaker

Using the Docuflex Bridge

with Docupresentation version 2.2

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Chapter 1

Using the Docuflex Bridge

You can use Docuflex as a composition engine for Docupresentment (IDS) on Windows. To do so, you use an IDS rule DLL (DFRCompose) that interacts with IDS, collects parameters (attachment variables), and executes Docuflex composition as a DLL.

Aside from the normal integration of a rule into IDS via a request type in the configuration file, the Docuflex rule DLL (DFLXRULE.DLL) accesses its own initialization file (DFLXRULE.INI) to provide flexibility in configurations.

You can also use the DFRFlexOut rule to handle Docuflex post-processing from within Docupresentment.

There are two categories of files and parameters necessary when using Docuflex with Docupresentment:

- Those associated with running Docuflex composition in any environment, such as Docuflex Studio, Documaker, or with Docupresentment.
- Those associated with IDS and DFLXRULE.DLL.

This chapter these files and the software requirements for running the bridge, as well as other topics:

- Docuflex Files and Parameters on page 2
- IDS Files and Parameters on page 3
- Software Requirements on page 4
- Using the DFRCompose Rule on page 5
- Using the DFRFlexOut Rule on page 9
The Docuflex Bridge, which is a composition engine, requires these parameters:

- An initialization file, typically DOCUFLEX.INI
- A Docuflex project file (*.DDP)
- A Docuflex data file (*.DDF).

These are the parameters you specify when you run Docuflex Studio or Docuflex in batch mode using the DFLXCOMP.EXE program:

- The DOCUFLEX.DDE file contains log and error files locations, font, and PrintDef INI locations (typically the ISI.INI file) and PATH MAPS.
- The Docuflex project file (*.DDP) defines page layouts, rules, and document content. This file is created and maintained using Docuflex Studio.
- The Docuflex data file (*.DDF) is the input data for Docuflex composition. This file is created by Transall.

Docuflex creates output via the Common Object PDL drivers. To create an output file, you must have print definitions (PrintDefs) and font specifications (PFMs or font matching tables).

The PDF driver, DC2PDFL, additionally requires its own font database files:

- DFXFCTRL.FDB
- DFXFCTRL.SSF

You maintain these files using the DFXFCTRL.EXE program that is installed with Common Objects (version 10.2.10, build 20021204 or higher).
The parameters required for the Docuflex Bridge (DFLXRULE.DLL) are stored in these files:

- docserv.xml
- DFLXRULE.INI
In addition to having a running Docupresentment environment, the Docuflex Bridge and Docuflex must be installed, as shown here:

<table>
<thead>
<tr>
<th>Install</th>
<th>In this directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFLXRULE.DLL</td>
<td>IDS installation directory (c:\docserv)</td>
</tr>
<tr>
<td>Docuflex</td>
<td>In the path where the other Docuflex files are stored, such as dfx1main.w32, dfxlassy.w32, and so on.</td>
</tr>
<tr>
<td>Common Objects</td>
<td>In the path where the other Common Objects files are stored, such as dc2docs.w32, dc2fonts.w32, dc2ini.w32, dc2file.w32, and so on.</td>
</tr>
</tbody>
</table>
The DFRCompose rule (in DFLXRULE.DLL) is activated by the DFLX request type defined in the configuration file which initializes IDS.

```xml
<section name="ReqType:DFLX">
  <entry name="function">atcw32->;ATCLogTransaction</entry>
  <entry name="function">atcw32->;ATCLoadAttachment</entry>
  <entry name="function">dflxrule->;DFRCompose</entry>
  <entry name="function">atcw32->;ATCUnloadAttachment</entry>
</section>
```

The DFLXRULE.DLL uses its initialization file, DFLXRULE.INI, to provide flexibility in configurations. Each section in the DFLXRULE.INI file is a named configuration that specifies the basic parameters required to execute Docuflex composition.

You can override many of the parameters specified in the DFLXRULE configuration using IDS attachment variables. This table describes the Config:xxxx control group options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConfigFile</td>
<td>(Optional) Enter the name of the INI file you want the system to use. The default is the DOCUFLEX.INI file in the local directory.</td>
</tr>
<tr>
<td>DMGProjectFile</td>
<td>(Optional) Enter the name of the Docuflex project file (*.DDP) located in a Documanage cabinet. Use this option instead of the ProjectFile option if you want to use DMGDDP functionality. This option tells the bridge to mirror the functionality of using the DMGDDP parameter with DFLXCOMP to access a DDP file from Documanage. For more information on using the DMGDDP parameter, see Using the DMGDDP and DMGDDF parameters on page 8.</td>
</tr>
<tr>
<td>ProjectFile*</td>
<td>(Optional) Enter the name of the Docuflex project file (*.DDP).</td>
</tr>
<tr>
<td>DMGDataFile</td>
<td>(Optional) Use this option instead of the DataFile option to describe the Docuflex data file you want to export from Documanage to your workstation for batch processing. For more information, see Using the DMGDDP and DMGDDF parameters on page 8.</td>
</tr>
<tr>
<td>DataFile*^</td>
<td>(Optional) Enter the name of the Docuflex data file (*.DDF)</td>
</tr>
<tr>
<td>Recipient*</td>
<td>(Optional) Enter the name of a recipient to process in the Docuflex project. The default is all recipients in the Docuflex project – which can cause problems if all recipient output goes to the same file as defined by PRINTFILE attachment variable.</td>
</tr>
<tr>
<td>ImportFile*^</td>
<td>(Optional) Enter the XML input data from iDocumaker Workstation you want to use to create the Docuflex data file (DDF).</td>
</tr>
<tr>
<td>ImportTEXFile^</td>
<td>(Optional) Enter the name of the Transall executable file (*.TEX) you want to use to convert XML into DDF format.</td>
</tr>
</tbody>
</table>

* - May be overridden by an attachment variable.
^ - When ImportFile, ImportTEXFile, and ImportTEXMethod are all defined, DFLXRULE executes the TEX to generate a DDF file from the XML file.
Here is an example DFLXRULE.INI configuration:

```
< Config:SAMPLE >
  ConfigFile = \docucorp\docserv\docuflex.ini
  ProjectFile= c:\docucorp\docserv\dflxrule\sampleletter.ddp
  DataFile = \docucorp\docserv\dflxrule\sample.ddf
  Recipient = PDF
</ Config:SAMPLE >
```

Be sure to place the DFLXRULE.INI file in the IDS installation directory (where the DOCSERVER.BAT program is running).

**NOTE:** For DFLXRULE, TRANRULE, and CPYRULE to run correctly with IDS 2.0 (and later) on the Linux platform, you must update the export definition for LD_PRELOAD by adding this file to the preload list:

```
/usr/lib/libstdc++-libc6.2-2.so.3
```

Include this change in the script you use to start IDS.
DFLXRULE gathers input parameters from IDS attachment variables. Attachment variables override any values specified in a DFLXRULE.INI configuration. Here is a summary of the input attachment variables:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONFIG</td>
<td>The name of the configuration in the DFLXRULE.INI file.</td>
</tr>
<tr>
<td>DMGPROJECTFILE</td>
<td>(Optional) The name of the Docuflex project file (*.DDP) located in a Documanage cabinet. Use this variable instead of PROJECTFILE if you want to use DMGDDP functionality. It mirrors the functionality of using the DMGDDP parameter with DFLXCOMP to access a DDP file from Documanage. For more information, see Using the DMGDDP and DMGDDF parameters on page 8.</td>
</tr>
<tr>
<td>PROJECTFILE*</td>
<td>(Optional) The name of the Docuflex project file (*.DDP).</td>
</tr>
<tr>
<td>DMGDATAFILE</td>
<td>(Optional) Use this variable instead of DATAFILE to pass a file specification that describes a Docuflex data file you want to export from Documanage to your workstation for batch processing. For more information, see Using the DMGDDP and DMGDDF parameters on page 8.</td>
</tr>
<tr>
<td>DATAFILE**</td>
<td>(Optional) The name of the Docuflex data file (*.DDF).</td>
</tr>
<tr>
<td>RECIPIENT*</td>
<td>(Optional) The name of the recipient to process in the Docuflex project file.</td>
</tr>
<tr>
<td>PRINTFILE</td>
<td>(Optional) The name of the file to receive the composed document. The default is the output file named in the channel in the Docuflex project file.</td>
</tr>
<tr>
<td>LOGFILE</td>
<td>(Optional) The name of the file you want to receive log messages. The default is the entry for the LOG_FILE option in the DOCUFLEX.INI file.</td>
</tr>
<tr>
<td>XMLIMPORT*</td>
<td>(Optional) The name of the XML file from iDocumaker Workstation which will be used to create the DDF file.</td>
</tr>
<tr>
<td>XMLEXPORT+++</td>
<td>(Optional) The name of the XML file used to return data to iDocumaker Workstation.</td>
</tr>
</tbody>
</table>

* - The default is the entry in the DFLXRULE.INI file configuration.
^ - The DDF file can be generated from XML by a Transall TEX (see above).
+++ - Future feature for data entry functionality with iDocumaker Workstation.
Chapter 1
Using the Docuflex Bridge

Output attachment variables
DFLXRULE reports results via IDS attachment variables. Here is a summary of the output attachment variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESULTS</td>
<td>SUCCESS or the text of the first error message written to log file.</td>
</tr>
<tr>
<td>CONFIG</td>
<td>The name of the configuration used for processing.</td>
</tr>
<tr>
<td>PROJECTNAME</td>
<td>The name of Docuflex project file.</td>
</tr>
<tr>
<td>DATAFILE</td>
<td>The name of Docuflex data file.</td>
</tr>
<tr>
<td>PRINTFILE</td>
<td>The name of output file.</td>
</tr>
<tr>
<td>XMLIMPORT</td>
<td>The name of XML import file or &quot;&quot;</td>
</tr>
</tbody>
</table>

Using the DMGDDP and DMGDDF parameters
You can include the DMGDDP and DMGDDF parameters to describe documents on the Documanage server. This parameter uses this syntax:

dmgddp=cabinet\folder\docname(x.x)\docid and folder DDP

Enter the parameter as shown here:

dmgddp=RenditionsCAB\DDP\sample

For example, if you know the specific major and minor version of SAMPLE.DDP is 2.5 and its document ID is 143, you would enter the parameter as shown here:

dmgddp=RenditionsCAB\Foo\sample(2.5)\143
The DFRFlexOut rule in DFLXRULE.DLL enables Docuflex post-processing within Docupresentment.

The Docuflex Output Processor IDS rule (DFLXRULE.DLL) is activated by the DFLXOUT request type defined in the configuration file which initializes IDS.

```xml
<section name="ReqType:DFLX">
  <entry name="function">atcw32->;ATCLogTransaction</entry>
  <entry name="function">atcw32->;ATCLoadAttachment</entry>
  <entry name="function">dflxrule->;DFRFlexOut</entry>
  <entry name="function">atcw32->;ATCUnloadAttachment</entry>
</section>
```

Like the DFRCompose rule, the DFRFlexOut rule accesses parameters from a named configuration section in the DFLXRULE.INI file.

### Input attachment variables

<table>
<thead>
<tr>
<th>Entry</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConfigFile</td>
<td>(Optional) The name of the configuration file that you want to use. The default is the DOCUFLEX.INI file in the local directory.</td>
</tr>
<tr>
<td>ProjectFile</td>
<td>(Optional) The name of the Docuflex project file (*.DDP). May be overridden by an attachment variable.</td>
</tr>
</tbody>
</table>

DFLXRULE gathers input parameters from IDS attachment variables. Attachment variables override any values specified in a DFLXRULE.INI file configuration. Here is a summary of the input attachment variables:

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONFIG</td>
<td>The name of the configuration in the DFLXRULE.INI file.</td>
</tr>
<tr>
<td>PROJECTFILE</td>
<td>(Optional) The name of the Docuflex project file (*.DDP). The default is the entry in the DFLXRULE.INI file configuration.</td>
</tr>
<tr>
<td>STACKEDDCD</td>
<td>(Optional) The name of the StackedDCD to be processed. This will override StackedIndex processing.</td>
</tr>
<tr>
<td>LOGFILE</td>
<td>(Optional) The name of the file you want to receive log messages. The default is the entry for the LOG_FILE option in the DOCUFLEX.INI file.</td>
</tr>
<tr>
<td>ENVNAME</td>
<td>(Optional) The name of environment to be used. The default is the entry for the CurEnvName option in the DOCUFLEX.INI file.</td>
</tr>
</tbody>
</table>

DFLXRULE reports results via IDS attachment variables. Here is a summary of the output attachment variables:

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESULTS</td>
<td>SUCCESS or the text of the first error message written to the log file.</td>
</tr>
<tr>
<td>CONFIG</td>
<td>The name of the configuration used for processing.</td>
</tr>
<tr>
<td>PROJECTFILE</td>
<td>The name of Docuflex project file.</td>
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