

Oracle® Documaker

Using the Docuflex Bridge

with Docupresentment version 2.3

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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](#)
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DOCUFLEX FILES AND PARAMETERS

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 ISL.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).

IDS FILES AND PARAMETERS

The parameters required for the Docuflex Bridge (DFLXRULE.DLL) are stored in these files:

- docserv.xml
- DFLXRULE.INI

SOFTWARE REQUIREMENTS

In addition to having a running Docupresentment environment, the Docuflex Bridge and Docuflex must be installed, as shown here:

| Install | In this directory |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------|
| DFLXRULE.DLL | IDS installation directory (c:\docserv) |
| Docuflex | In the path where the other Docuflex files are stored, such as dfxlmain.w32, dfxlassy.w32, and so on. |
| Common Objects | In the path where the other Common Objects files are stored, such as dc2docs.w32, dc2fonts.w32, dc2ini.w32, dc2file.w32, and so on. |

USING THE DFRCOMPOSE RULE

Using the
DFLXRULE.INI file

The DFRCompose rule (in DFLXRULE.DLL) is activated by the DFLX request type defined in the configuration file which initializes IDS.

```
<section name="ReqType:DFLX">
  <entry name="function">atcw32->;ATCLogTransaction</entry>
  <entry name="function">atcw32->;ATCLoadAttachment</entry>
  <entry name="function">dflexrule->;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:

| Option | Description |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ConfigFile | (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. |
| DMGProjectFile | (Optional) Enter the name of the Docuflex project file (*.DDP) located in a Documanager 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 Documanager. For more information on using the DMGDDP parameter, see Using the DMGDDP and DMGDDF parameters on page 8 . |
| ProjectFile* | (Optional) Enter the name of the Docuflex project file (*.DDP). |
| DMGDataFile | (Optional) Use this option instead of the DataFile option to describe the Docuflex data file you want to export from Documanager to your workstation for batch processing. For more information, see Using the DMGDDP and DMGDDF parameters on page 8 . |
| DataFile*^ | (Optional) Enter the name of the Docuflex data file (*.DDF) |
| Recipient* | (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. |
| ImportFile*^ | (Optional) Enter the XML input data from iDocumaker Workstation you want to use to create the Docuflex data file (DDF). |
| ImportTEXFile^ | (Optional) Enter the name of the Transall executable file (*.TEX) you want to use to convert XML into DDF format. |

* - 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.

| Option | Description |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ImportTEXMethod^ | (Optional) Enter the name of the method in the Transall executable file (*.TEX). |
| UseDDF^ | (Optional) Enter one (1) to tell the system to use the DDF you specified even if an ImportFile, ImportTEXFile, and ImportTEXMethod are defined. The default is zero (0). |
| Options* | <p>(Optional) Access these optional processing characteristics.</p> <p><i>nodd</i> - Operating DFLXCOMP with no Docuflex data file (see Operating DFLXCOMP with NoDDF in the Docuflex manual for more information)</p> <p><i>nostix</i> - Operating DFLXCOMP with no stacked index (see StackedIndex in the Docuflex manual for more information)</p> <p><i>effdate</i> - The date on or after which current forms are included. You can choose from these values:</p> <ul style="list-style-type: none"> - YYYYMMDD - start effective date processing on this date - today - start effective date processing as of today's date - disabled - (default) disable effective date processing <p>Here is an example:</p> <pre>effdate=20080217</pre> <p>This tells the system to include forms with effective dates that fall on or after February 17, 2008.</p> |

* - 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\dflexrule\sampleletter.ddp
  DataFile   = \docucorp\docserv\dflexrule\sample.ddf
  Recipient  = PDF
```

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.

Input attachment variables

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:

| Variable | Description |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CONFIG | The name of the configuration in the DFLXRULE.INI file. |
| DMGPROJECTFILE | (Optional) The name of the Docuflex project file (*.DDP) located in a Documanager 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 Documanager. For more information, see Using the DMGDDP and DMGDDF parameters on page 8 . |
| PROJECTFILE* | (Optional) The name of the Docuflex project file (*.DDP). |
| DMGDATAFILE | (Optional) Use this variable instead of DATAFILE to pass a file specification that describes a Docuflex data file you want to export from Documanager to your workstation for batch processing. For more information, see Using the DMGDDP and DMGDDF parameters on page 8 . |
| DATAFILE*^ | (Optional) The name of the Docuflex data file (*.DDF). |
| RECIPIENT* | (Optional) The name of the recipient to process in the Docuflex project file. |
| PRINTFILE | (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. |
| LOGFILE | (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. |
| XMLIMPORT* | (Optional) The name of the XML file from iDocumaker Workstation which will be used to create the DDF file. |
| XMLEXPORT+++ | (Optional) The name of the XML file used to return data to iDocumaker Workstation. |

* - 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.

| Variable | Description |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OPTIONS* | <p>(Optional) Access these optional processing characteristics.</p> <p><i>nodd</i> - Operating DFLX32 with no Docuflex data file (see Operating DFLX32 with NoDDF in the Docuflex manual for more information)</p> <p><i>nostix</i> - Operating DFLX32 with no stacked index (see StackedIndex in the Docuflex manual for more information)</p> <p><i>effdate</i> - The date on or after which current forms are included. The valid values are as follows:</p> <ul style="list-style-type: none"> - YYYYMMDD - start effective date processing on this date - today - start effective date processing as of today's date - disabled - (default) disable effective date processing <p>Here is an example:</p> <pre>effdate=20050217</pre> <p>This tells the system to include forms with effective dates that fall on or after February 17, 2005.</p> |

* - 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.

Output attachment variables

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

| Variable | Description |
|-------------|---------------------------------------------------------------------|
| RESULTS | SUCCESS or the text of the first error message written to log file. |
| CONFIG | The name of the configuration used for processing. |
| PROJECTNAME | The name of Docuflex project file. |
| DATAFILE | The name of Docuflex data file. |
| PRINTFILE | The name of output file. |
| XMLIMPORT | The name of XML import file or "" |

Using the DMGDDP and DMGDDF parameters

You can include the DMGDDP and DMGDDF parameters to describe documents on the Documanager 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
```

USING THE DFRFLEXOUT RULE

The DFRFlexOut rule in DFLXRULE.DLL enables Docuflex post-processing within Docupresentment.

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

```
<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

| Entry | Description |
|-------------|----------------------------------------------------------------------------------------------------------------------------------|
| ConfigFile | (Optional) The name of the configuration file that you want to use. The default is the DOCUFLEX.INI file in the local directory. |
| ProjectFile | (Optional) The name of the Docuflex project file (*.DDP). May be overridden by an attachment variable. |

DFLRULE 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:

| Name | Description |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| CONFIG | The name of the configuration in the DFLXRULE.INI file. |
| PROJECTFILE | (Optional) The name of the Docuflex project file (*.DDP). The default is the entry in the DFLXRULE.INI file configuration. |
| STACKEDDCD | (Optional) The name of the StackedDCD to be processed. This will override StackedIndex processing. |
| LOGFILE | (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. |
| ENVNAME | (Optional) The name of environment to be used. The default is the entry for the CurEnvName option in the DOCUFLEX.INI file. |

Output attachment variables

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

| Name | Description |
|-------------|-------------------------------------------------------------------------|
| RESULTS | SUCCESS or the text of the first error message written to the log file. |
| CONFIG | The name of the configuration used for processing. |
| PROJECTFILE | The name of Docuflex project file. |

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