

Oracle® Insurance Calculation Engine

Document Generator

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OVERVIEW

Oracle Insurance Calculation Engine (OICE) provides users with the ability to dynamically generate documents in PDF format. Transactions that are configured with an attached GenerateDocument business rule can access OICE data to generate a dynamic document.

The document generating system uses Crystal Reports XI. The standard Crystal Reports report file, which has the *.rpt* file extension, is used as the document template. Each individual transaction can be configured to use a specific template.

A web service, DocumentGenerator, is used by OICE to process the document generator. The DocumentGenerator WSDL can be accessed by entering the server name and port for OICE in the address below:

```
http://<OICE-SERVER:PORT>/PASJava/DocumentGenerator?wsdl
```

Important: Since the Document Generator uses Crystal Reports XI, appropriate licenses and media must be obtained from the vendor prior to proceeding. Assuming application context name is PASJava in above URL.

Customer Support

If you have any questions about the installation or use of our products, please visit the My Oracle Support website: <https://support.oracle.com>, or call (800) 223-1711.

Oracle customers have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info>

or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

INSTALLATION

Directory Structure

Two directories must be created: one to store the templates and one for the generated documents. Each of these directories must be accessible by the application server and OICE instance. In the example below, the *Documents* directory is used to store the document templates, while the *GeneratedDocuments* directory is used to store the generated documents.

Example:

```
document.documentPath=/opt/Oracle/OICE/Documents
document.generatedDocumentRootPath=/opt/Oracle/OICE/GeneratedDocuments
```

Required Libraries

Thirty Two required libraries must be placed in the class loader of the application server. Each of these files is included with Crystal Reports, and is not included with OICE.

CrystalCharting.jar	CrystalCommon.jar	CrystalContentModels.jar	CrystalExporters.jar
CrystalExportingBase.jar	CrystalFormulas.jar	CrystalQueryEngine.jar	CrystalReportEngine.jar
CrystalReportingCommon.jar	Concurrent.jar	CRDBJavaServerCommon.jar	CRDBXMLServer.jar
rasapp.jar	jrcerom.jar	keycodeDecoder.jar	MetafileRenderer.jar
rascore.jar	rpoifs.jar	Serialization.jar	URIUtil.jar
cecore.jar	celib.jar	commons-configuration-1.2.jar	commons-lang-2.1.jar
CRDBXMLExternal.jar	corbaidl.jar	ebus405.jar	jrcaadapter.jar
ReportPrinter.jar	ReportViewer.jar	icu4j-4.6.jar	commons-configuration-1.5

Configuration Files

The CRConfig.xml configuration file is required for Crystal Reports and is included within the OICE .war file.

OICE Properties File

The OICE configuration file, *PAS.properties* must be modified to include the necessary configuration. Refer to the **System Properties** document in the Oracle Insurance Calculation Engine 10.2.1.0 documentation library published on the Oracle Technology Network (OTN) for additional information on the *PAS.properties* file.

document.crystalConnectionCount	Maximum concurrent connections
document.documentPath	The path of the document template directory
document.generatedDocumentRootPath	The path of the directory used to store generated documents.
document.documentGeneratorUrl	The address of the DocumentGenerator WSDL.

Example:

```
document.crystalConnectionCount=1
document.documentPath=/opt/Oracle/OICE/Documents
document.generatedDocumentRootPath=/opt/Oracle/OICE/GeneratedDocuments
document.documentGeneratorUrl=http://localhost:8080/PASJava/DocumentGenerator?wsdl
```

USING THE DOCUMENT GENERATOR

Configure in the Rules Palette

After the installation steps are complete, the Rules Palette provides the tools to configure the necessary components of the Document Generator. The following configuration requirements are necessary to implement this functionality.

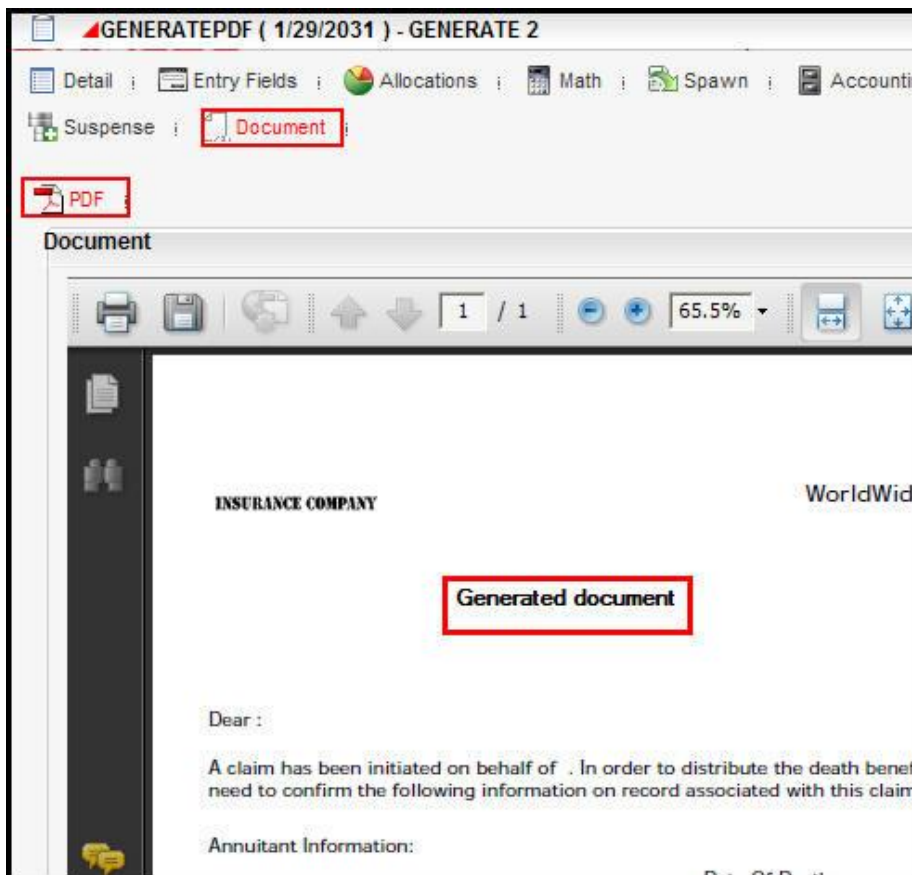
- A transaction configured to generate a PDF file.
- ExternalProcess rule attached to the transaction. This rule is configured to trigger the GenerateDocument rule.
- GenerateDocument business rule overridden at the transaction level. This rule is not listed in the TransactionBusinessRulePacket for GeneratePDF. GenerateDocument calls a template that is located on the server to dynamically generate a PDF file based on input gathered from a SQL query in the GenerateDocument rule.
- File template added to the server at the path specified in the PAS.properties file. This file name should match the name specified in the GenerateDocument configuration. This was added during the installation process described earlier in this document.

Note: Refer to the Rules Palette help system for complete instructions on configuring the Document Generator. This information can be found under **Main Explorer Folders | Prototypes | Previous Release Prototype Samples | View PDF Documents**. The help is located inside the Rules Palette application. Click the Help option on the Main menu to reveal the link to the help.

Generate Documents in OICE

When the components of the Document Generator are properly configured in the Rules Palette, an OICE user can generate a document by simply adding the PDF generating activity to the Activity screen and then processing it. Once the activity is active, the user may click the Activity Detail icon to the left of the activity. The Activity window will open. A **Document** link should be visible along the top of the window.

Note: Refer to the OICE help system for complete instructions on working with PDF generating activities. The help is located in the Oracle Insurance Calculation Engine 10.2.1.0 documentation library on OTN.



Activity Window in OICE with Document Link