

## Render Details

When rendering a report, various output options can be set using the Render Wizard. These options are stored in the report when you save and therefore apply on the server also. If you want to modify the options, perhaps using dynamic parameters to control them at render time, even on the server, then you need to write a little script.

This script in `Report.OnRenderBegin` will get the `RenderDetails` for PDF.

```
var rd = getRenderDetails("application/pdf");
```

If your JavaScript has a different scope, eg. within a component, you will need to use something like:

```
var rd = Renderer.getRawReport().getRenderDetails("application/pdf");
```

It is possible that if this report has never been rendered into PDF that `rd` is null. Therefore, you need to check and create if necessary like this:

```
importClass(Packages.com.elixirtech.report2.raw.model.RenderDetails);
var rd = getRenderDetails("application/pdf");
if (rd==null)
{
    rd = new RenderDetails("application/pdf");
    setRenderDetails(rd);
}
```

This will create a blank render details associated with the PDF mime-type ready for you to fill in your options.

The rest of this document lists the options available for each mime-type. Each option has an associated type hint, but all are actually strings. A Boolean is a string with the value "Yes" for true. Any other value is false. An Integer should also be passed as a String, eg. "72".

Set the value using this function:

```
rd.setParameterValue(name,value);
```

for example,

```
rd.setParameterValue("Encryption","Yes");
```

<b>CSV</b>	mime-type(s): text/csv
<b>Encoding : String</b>	The file encoding to be used for the output CSV. Defaults to "UTF-8".
<b>Qualifier : String</b>	The delimiter to use for fields. Any string can be used. "None" is reserved to mean no qualifier. Usually this should be set to double quotes if the field contents may contain embedded separators (eg. commas).
<b>Separator : String</b>	The separator between fields. The pre-defined names are: "Tab", "Colon", "Semicolon", "Colon" or "Space". Any other character can be used here, eg. "#". Defaults to "Semicolon".

<b>Glint</b>	mime-type(s): application/x-glint
<b>FillBackground : Boolean</b>	This flag indicates whether the background should be filled. This is set to true under most circumstances, but is false when rendering Glint in a Dashboard, so the background can show through.
<b>Paged : Boolean</b>	This flag indicates the output should be separated into pages, with page headers and footers as appropriate. This flag cannot be used in conjunction with Tree.
<b>Tree : Boolean</b>	This flag indicates the output should be separated into a tree of pages, each page holding a group and subsequent pages the corresponding subgroups based on the Table Of Contents settings. This flag cannot be used in conjunction with Paged.

<b>HTML</b>	mime-type(s): text/html, application/x-html-zip
<b>Paged : Boolean</b>	This flag indicates the output should be separated into pages, based on the page setup with page headers and footers as appropriate. This flag cannot be used in conjunction with Streamed, Sectioned or Tree.
<b>Sectioned : Boolean</b>	This flag indicates the output should be separated into pages, one page per report section. This flag cannot be used in conjunction with Streamed, Paged or Tree.
<b>SkipHeaders : Boolean</b>	This flag indicates that the generated HTML should not include <html> headers etc. The output is intended to be inserted into an existing HTML document.
<b>Streamed : Boolean</b>	This flag indicates that the generated HTML should consist of one long page - there is no pagination and hence no page headers or footers. This format provides a single html file in the output.
<b>SVGPassThrough : Boolean</b>	If this flag is enabled, SVG content is passed through unchanged. Otherwise the SVG content is rendered into an image. Set this flag if your browser supports embedded SVG content.
<b>Tree : Boolean</b>	This flag indicates the output should be separated into a tree of pages, each page holding a group and subsequent pages the corresponding subgroups based on the Table Of Contents settings. This flag cannot be used in conjunction with Paged or Sectioned.
<b>TreeHighlightColor : String</b>	In Tree mode, the background colour to use when the mouse is hovering over links that allow navigation through the tree.
<b>TreeNormalColor : String</b>	In Tree mode, the background colour to use for links that allow tree navigation when the mouse is not hovering over it.

<b>Image</b>	mime-type(s): image/png, image/jpeg
<b>DPI : String</b>	The Dots Per Inch (DPI) value should contain an integer value. The default value is 72. Doubling this to 144 will produce more detailed images, but with a four times increase in memory used. Significantly higher values will usually run out of system memory before rendering is complete.
<b>Greyscale : Boolean</b>	This flag indicates the image should be rendered using only shades of grey. Greyscale requires less memory and produces a smaller file. Use this if your image report is black and white, or is intended to only be printed in black and white.
<b>Tree : Boolean</b>	This flag indicates the output should be separated into a tree of pages, each page holding a group and subsequent pages the corresponding subgroups based on the Table Of Contents settings. This flag cannot be used in conjunction with Paged.
<b>IML</b>	mime-type(s): application/x-rml-interactive
<b>ReadOnly : Boolean</b>	The read-only flag prevents users of the Interactive Viewer from editing the embedded data values and rendering modified reports.

<b>PDF</b>	mime-type(s): application/pdf
<b>AllowAssembly : Boolean</b>	Allows holders of the user password to assemble documents (insert, rotate, or delete pages and create bookmarks or thumbnail images). (128 bit encryption only)
<b>AllowCopy : Boolean</b>	Allows holders of the user password to copy or otherwise extract text and graphics from the document.
<b>AllowDegradedPrinting : Boolean</b>	Allows holders of the user password to print to a low-level representation of the appearance. (128 bit encryption only)
<b>AllowFillIn : Boolean</b>	Allows holders of the user password to fill in document forms. (128 bit encryption only)
<b>AllowModifyAnnotations : Boolean</b>	Allows holders of the user password to modify annotations in the document.
<b>AllowModifyContents : Boolean</b>	Allows holders of the user password to modify the document.
<b>AllowPrinting : Boolean</b>	Allows holders of the user password to print the document.
<b>AllowScreenReaders : Boolean</b>	Allows holders of the user password to use screen readers. (128 bit encryption only)
<b>Encryption : Boolean</b>	This flag enables encryption, which in turn enables the AllowXXX options.
<b>EncryptionStrength : String</b>	The allowed values are: "40 bits" or "128 bits".
<b>Greyscale : Boolean</b>	Renders the document in shades of grey.
<b>InitialZoom : String</b>	Sets the initial zoom level of the document. Not all PDF readers can support this, but Acrobat Reader does. The value should be a percent value, such as "100%", "45%" etc.
<b>OwnerPassword : String</b>	Sets the owner password. The owner can modify permissions and decrypt the document.

<b>RenderAsImage : Boolean</b>	Render each PDF page as an image. This avoids needing to embed fonts (which may be subject to licensing restrictions), but is likely to result in bigger files.
<b>RenderAsImageDPI : String</b>	Set the DPI resolution (an integer value) for RenderAsImage mode. The default value is 72. Larger numbers will quickly increase the file size.
<b>RenderTextAPI : Boolean</b>	This flag enables rendering using the IText API, which is on by default. Rendering using the Java Graphics API (which is the alternative if this flag is turned off) tends to produce larger files and more variation between Java versions.
<b>UserPassword : String</b>	Sets the user password. The user is restricted according to the AllowXXX options. An empty user password means no prompt is required to view the document, but AllowXXX options still apply. However, a document with no user password is easier to crack.

<b>Print</b>	mime-type(s): application/x-print
<b>Chromacity : String</b>	The possible values are: "Color" or "Monochrome".
<b>Copies : String</b>	An integer value indicating the number of copies of the report that should be printed.
<b>JobName : String</b>	A name for the job, useful if your print administration / spooler software can show and/or record this.
<b>MediaTray : String</b>	The possible values are: "Main","Bottom","Envelope","LargeCapacity","Manual","Middle","Side","Top".
<b>NumberUp : String</b>	This integer value specifies the number of report pages to print upon a single side of the paper. That is, if the NumberUp value is 4, the printer must place 4 report pages on a single side of the paper. To accomplish this, the printer may add some sort of translation, scaling, or rotation.
<b>PageRange : String</b>	The page range value is a string that allows you to choose which pages to print. For example, "3-7,12,15-20" will print out twelve pages: 3,4,5,6,7,12,15,16,17,18,19,20. For more details on the allowed syntax, see javax.print.attribute.SetOfIntegerSyntax.
<b>PrinterName : String</b>	The name of the destination printer.
<b>PrinterResolution : String</b>	This integer value defines the resolution, in DPI of the printer.
<b>PrintQuality : String</b>	The possible values are: "Draft","High","Normal".
<b>ShowPrintDialog : Boolean</b>	If this flag is true, a print dialog will appear and the user must click Ok to proceed. If the flag is false, no dialog will appear and printing will proceed without interaction.
<b>Sides : String</b>	"Duplex","Tumble","Two Sided Long Edge","Two Sided Short Edge", "One Sided"

<b>RTF</b>	
	mime-type(s): application/rtf
<b>Author : String</b>	The Author information is embedded in the generated RTF. This should be viewable as part of the document information in most RTF Readers.
<b>Comments : String</b>	Any comments are embedded in the generated RTF. This should be viewable as part of the document information in most RTF Readers.
<b>Company : String</b>	The Company information is embedded in the generated RTF. This should be viewable as part of the document information in most RTF Readers.
<b>Word2003 : Boolean</b>	Word2003 adjusted the size of images compared to earlier versions. If your output contains images (eg. charts etc.) then ensure this option is selected so that images are correctly sized.

<b>XLS</b>	
	mime-type(s): application/vnd.ms-excel
<b>Paged : Boolean</b>	This flag indicates the output should be separated into sheets, based on the page setup with page headers and footers as appropriate.
<b>Snap : Boolean</b>	Shifts all coordinates so that they align to a grid. This reduces the number of tiny rows and columns for spacings, but may also affect the report layout. It is advisable to try with Snap on and Off to see the impact that it will have on your template. If your template is designed using rulers, HBoxes and VBoxes, Snap will rarely be necessary.

<b>XML</b>	mime-type(s): text/xml
<b>Encoding : String</b>	The file encoding to be used for the output XML. Defaults to "UTF-8".
<b>Indented : Boolean</b>	This flag indicates that the XML output should be in an indented, human-readable form, instead of all on one line. The indented version includes newline and spacing characters that mean the file size is bigger. If the XML file is read by another application, it is more efficient not to indent.
<b>Paged : Boolean</b>	This flag indicates the output should be separated into sheets, based on the page setup with page headers and footers as appropriate.
<b>XSLT : String</b>	This string indicates an XSLT file (usually with a .xsl extension) in the Repository should be used to transform the XML generated into a custom format. The custom format need not be XML.
<b>XSLT_Enabled : Boolean</b>	The XSLT transformation is only applied when this flag is enabled. This allows for easy debugging without having to keep deleting and re-entering the XSLT path.