Docmosis v4.1.0 Release Notes

Aug 2016

New Features / Changes

#	Change			
1	Date Rendering has "sticky" timezone.			
	The built in "DateRenderer" and "DateFormat" functions now use the timezone of the input date format (where timezone is provided) to assist with the output formatting. This avoids accidental conversion to a different timezone than the given timezone. Previously the output timezone would be the default for the application environment.			
	For example, if the input data format specifies timezone CST, then the output format implicitly uses CST also.			
	Legacy behavior can be enabled by setting: docmosis.renderer.dateDisableTimezoneDataPersistence=true			
2	Literals Parsing Improved.			
	Field processing has been enhanced to allow quoted constants to contain arbitrary content. eg ('abc.def'). Previously the period ('.') character would cause the intended literal to be split.			
3	Docx Enabled by Default.			
	Docx processing is now enabled by default. This requires LibreOffice which has DOCX support, or the ODFConverter to be used if using Open Office.			
4	TIFF Image Support.			
	TIFF images are now supported in the templates and data streams.			
5	New toAlpha(), toAlpha2(), toRoman() Functions.			
	New number formatting functions to Alpha, to Alpha 2, to Roman have been added to allow Docmosis to support numbering itself. This means that Docmosis can provide numbering in different formats based on the current index:			
	<pre><<rs_items>> <<{toAlpha(\$itemnum)}>>). This is an item <<es_>></es_></rs_items></pre>			
	Would produce output like:			
	a). This is an itemb). This is an itemc). This is an itemd). This is an item			

Change toAlpha() maps numbers to a, b, c..., y, z, aa, bb, cc, dd etc. For example: toAlpha(1) => atoAlpha(26) => ztoAlpha(27) => aa toAlpha(28) => bb toAlpha2() maps numbers to a, b, c..., y, z, aa, ab, ac, ad etc. For example: toAlpha2(1) => atoAlpha2(26) => ztoAlpha2(27) => aatoAlpha2(28) => abwhich is the same as toAlpha() except when hitting double letters. toRoman () maps numbers to Roman Numerals. For example: toRoman(1) => itoRoman(26) => iitoRoman(27) => xxvii toRoman(28) => xxviii Barcodes supported by default: Code 128 Code 39 **ITF 14** Adding a barcode is easy and quite docmosis configurable. See the Docmosis Template Guide for details. You will also need barcode4j.jar (from (http://barcode4j.sourceforge.net/).

API Changes

The following API changes should be noted

Class / Interface	Change
ConverterPoolGroupStatus	New public method getUptimeSeconds () to provide the uptime for Docmosis as required.
XMLNodeFilter, StringInterceptor, Base64StringInterceptor	Added to Javadoc API documentation.
DocumentConverter	updated Javadoc to state explicitly the IllegalArgumentExceptions it throws.

#	Change
1	Fixed bug in FileUtilities where unzipping a zip file with sub folders was failing because the

#	Change		
	sub-folders were not being created.		
2	Improved field detection where plain text fields near the bottom of a page could be left unrecognized.		
3	Updated bootstrapping to work under windows Service accounts.		
4	Fixed issue with borders working with <i>stepped</i> repeating rows (ie when using the :stepN directive)		
5	Fixed bug where injecting html that was simply a table would leave the "repairme" text behind.		
6	Fixed issue where table borders and other style information was lost for some simple tables where < <rre><<rre>>> or <<ref:>> fields existed, but no tables in the document had lookup fields.</ref:></rre></rre>		
7	Reduced diagnostics logging for the ExpressionFunctionAdapter to make sure that when a processing error occurs, the message doesn't contain the package and class of the exception. This makes the message more meaningful to the user.		
8	Updated evaluator to not spit out same message about overridden functions every construction.		
9	Fixed NPE in table analysis where conditional column was spanned. This could show up as an error with message "null".		

[Older] Docmosis v4.0.3 Release Notes

Dec 2015

Please note: html-like markup now defaults to enabled (see docmosis.populator.field.markup.process details below).

New Features / Changes

#	Change				
1	If / Else / Else-If Support in Conditional Sections				
	<pre>Simple "else" looks like this:</pre>				
	<pre>"else-if" is written like this:</pre>				
	Conditional Sections Support the new Expression Syntax (described below) Eg: <pre></pre>				
2	New Expression Engine A new expression engine has been added that improves computational capabilities of templates. Operators and functions can be applied to String and numeric data. The following lines summarize the way this affects the templates. Expressions in Docmosis templates are still delimited by the braces ("{" and "}") characters.				
	 Expressions can now include: Precedence using the brackets "(" and ")" characters Mathematical expressions Mathematical and String functions Boolean logic 				

Change 3 **Direct Expression Evaluation** Fields which are expressions can be used to insert data into documents. For example: <<{1 + 2 + 3}>> <<{round(val/100,2)}>>% <<{titleCase(firstName + ' ' + lastName)}>> 4 **Assignment of Expressions to Variables** Variables can now be assigned the results of expressions: << \$m={expr} >> Eg. <<\$m={round(1+ceil(2*3.5))}>> round(1+ceil(2*3.5)) = << m>>5 **Boolean Logic** <<cs {val1 || (val2 && val3)}>> val1 is true or both val2 and val3 are true <<es >> 6 Maths functions Typical math functions are supported. Eg. $<<\{\max(4.522, 4.5)\}>>$ The round() function has been extended to support an optional precision: <<{round(1.236)}>> $<<\{$ round (1.236, 2) $\}>>$ The precision also pads: <<{round(1.2,5)}>> 7 **String Functions** charAt, compareTo, compareTolgnoreCase, concat, endsWith, equals, equalsIgnoreCase, indexOf, lastIndexOf, length, replace (character replacement), startsWith, substring, toLowerCase, toUpperCase, Trim, map, titleCase, split, eg: <<{equals('a','b')}>> <<{indexOf('abc','b')}>> <<{startsWith('this is', 'this')}>> <<{titleCase('joe blogs')}>> 8 **Formatting Functions** numFormat and dateFormat functions have been created to perform numeric and date formatting functions. These functions are based on the similarly named FieldRenderers that already existed in Docomsis. numFormat(<value>, <format>[, <locale>]) <<{numFormat(value1, `###,###.00')}>> dateFormat(<value>[, <output format>[, <input format>]]) <<{dateFormat(value1, 'dd/MM/yy', 'dd-MMM-yyyy')}>>

```
#
    Change
9
    Operators
    The well known operators are supported:
          ( ) + - * / % + - = == != < <= > >= && || !
    XML population has been updated to allow "\r" to result in paragraph insertion (in addition to
10
    "\r\n" and "\n"). This helps XML data processing where the xml contains this type of new lines.
    Logging is by default quieter now with more logging information moved to DEBUG/FINE level.
11
12
    Hyperlink processing has been updated to be able to use variables and variables set from
     expressions. The hyperlinks are now expected to be of the format
     <<li><<li>xxx>> but the <<li>xxx>> format is still supported.
     Docmosis can be managed without configuration files. The new Configuration class provides
13
     an api for controlling settings:
         Configuration config = Configuration.standard();
         config.setConverterPoolConfiguration("1");
         config.setOfficeLocation(loInstallPathStr);
         config.setKeyAndSite(siteStr, keyStr);
         SystemManager.initialise(config);
14
    Sub-templates can now set template-variables that are visible to the "master" template and
    subsequently processed templates.
15
    Updates have been made to allow a load balancer to sit between Docmosis and it's remote
    converters.
16
    String data that is provided is now automatically base64 decoded into images if the string data
    starts with the sequence "image:base64:"
```

API Changes

The following API changes should be noted

Class / Interface	Change
Configuration	New Configuration class provides configuration-file-free management of docmosis configuration.
DataProviderBuilder	core - added new methods to DataProviderBuilder to allow "tabular data" to be added easily given a Map[] or a String[][][].
DataProviderBuilder	New methods for inserting StringInterceptors and getting the list of active interceptors. These interceptors can manipulate data as it is added to the data provider (eg turning base64 image data into binary images).
SystemManager	Exceptions have been simplified for startup. Now the RuntimeException StartupException if a problem occurs during the startup sequence and sub-classes of the StartupException allow problem-specific handling.
RemoteConverter supersedes RemoteConverterTerminus	RemoteConverterTerminus is now superseded by RemoteConverter.

Class / Interface	Change
FieldDetails	The FieldDetails class has a new method getDataProviderLineage() which provides access to the current DataProvider, its parent, grandparent etc. This means broad data access is possible in custom FieldRenderer instances.

Improved hyperlink insertion to deal with being given blank data. This was corrupting DOC output. Improved hyperlink insertion to deal with being given blank data. This was corrupting DOC output. Ippace of the content of the cont		1x65 / Teelimear Onanges			
output. Fixed DocumentConverter which was leaking BasicDocuments and relying on finalizer to cleanup. Updated LocalOpenOfficeConverter which was hanging onto the inputstreams from spawned docx converters. Updated OpenOfficeServerLauncher to clean up launched Processes better. Updated field parsing to handle more cases where set-variable fields occurring in redundant paragraphs (blank lines) was causing parsing errors. Improved injection of errors into the document (in "dev" mode): Errors not being visible in the document stopping template errors highlighting in red Improved the performance and accuracy of JSON data in DataProviders. It was converting to/from String unnecessarily AND numeric values (like 100.0) were becoming 100. Improved JSON data provision for anonymous arrays (arrays that have a list of values without keys). Internally, the new key "" is used for items that are anonymous which fits current data provision perfectly - and is semantically a good fit. Improved debug dump toString() of MemoryDataProvider to show blank keys. Improvide population of < <rs_\$this>> and <<rs_\$current>> to work with JSON anonymous arrays of arrays. Updated analysis to detect when overlapping sections are caused by an over-zealous image bookmark and raise a better error message. This occurs when the bookmark captures more than just the image so other content could be accidentally removed from the result. Updated field processing in numbered and bullet lists. Removes the default assumption that a bullet list with a field in it is intended for repetition and makes it much more "normal". Added configurable diagnostics logging to the DateRenderer Increased the default window size for xml processing for templates with large/complex paragraphs particularly in docx format. Fixed issue where hidden ("_GoBack") bookmarks created by new versions of word (Mac) were causing blank paragraphs to be left behind. Updated deror handling for when a start or end tag is in a list (but not the matching tag) - causing the rela</rs_\$current></rs_\$this>	#				
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18 Updated MemoryDataProvider to delete any created temp files for images when the same	17	, , , , , , , , , , , , , , , , , , , ,			
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#	Change			
	image is set again (overwrite)			
19	Updated XML dataprovision to ensure the StringInterceptors are applied for XML attribute values.			
20	Fixed issue where looping over including sub-templates more than 2 levels deep would incorrectly determine a cycle in template referencing and raise an error.			
21	Updated number renderer to be able to take a second parameter which identifies the locale to use when parsing/formatting the date.			
22	Updated default settings to work with newer versions of LibreOffice on Mac OSX.			
23	Set the plain text markup << and >> settings as the default so they don't need to be specified in any configuration explicitly.			
24	Fixed issue with DataProviderBuilder.addStringInterceptor() methods which only worked for first addition.			
25	Added capture and debugging of time spent waiting for the converter at the remote end point to help with performance diagnostics when using remote converters.			
26	The license key format has changed.			
27	Fixed a corner-case failing to process documents with a conditional section being started in one bullet/list item and being completed in a following paragraph which was not a separate bullet/list item.			
28	 converterPoolConfig.xml has been simplified: easier to specify "remote" vs "embedded" converters embedded converters can be launched with a single count="n" setting rather than referring to soffice/soffice.exe n times. 			
29	HTML-like processing of data values is now enabled by default: docmosis.populator.field.markup.process=true whereas it was previously disabled by default. This processing means the ,<i>,<u> and <bgcolor> tags can be embedded in text data to perform some html-like changes. This feature is separate from HTML-injection which is always treated as HTML.</bgcolor></u></i>			
30	The location of the "template store" which is a file-system cache of analysed templates now defaults to "./templateStore". Previously it would default to a temp directory meaning if not set, it would not persist across executions. The default property is now: docmosis.template.store.location=./templateStore			
31	The converter pool configuration property now defaults to "converterPoolConfig.xml". Previously it had no default and would be typically set to this (now-default) value by all users. The default property is now: docmosis.document.converter.pool.config.resource=converterPoolConfig.xml			

[Older] Docmosis v3.3.0 Release Notes

Jan 2015

New Features

```
#
         Change
1
         New HTML-injection feature. The new tag:
            <<html:myData>>
         will process the given data as html and render the html into the document.
         So, the following HTML:
          this is the beginning of html content
         <h1>This is H1</h1>
         The heading styles come from the template by default. This 6b>H1</b> heading comes from the
         template.
         <h2>This is H2</h2>
         This \langle b \rangle H2 \langle /b \rangle is simply a default style from the template also.
         <h3 style="color:red">This is H3</h3>
         We made the above \begin{subarray}{c} \begin
         Local styles are important.
         <span</pre>
         style="color:white">Cell 1</span>
         <span</pre>
         style="color:white">Cell 2</span>
         <span
         style="color:white">Cell 3</span>
         And again
         more html
         <span style="background-color:orange">and even more</span>
          
         10.42
         Summary
         </t.r></t.able>
          
         this is the end of html content
         Will render into a <<html:myData>> field like this:
```

#	Change				
		this is the beginning of html content			
		This is H1			
		The heading styles come template.	from the template by defa	ult. This H1 heading comes from the	
		This is H2			
		This H2 is simply a defau	lt style from the template	also.	
		This is H3			
		We made the above H3 red in the HTML with local style. Interesting. Local styles are important.			
		Cell 1	Cell 2	Cell 3	
		And again	more html	and even more	
			10.42	Summary	
		this is the end of html con	tent		
2	Image Alt	Text can now be dyna	mically changed. Ad	ding a Docmosis tag to the alt-text of a	.n
	image wil	l cause document proce	essing to process the t	ag and update the alt-text.	
3	Accessibil	ity updates for PDF ou	tput. To allow PDF	documents to be more useful to low-vis	sion
	users. The API call:				
	ConversionInstruction.setPdfTagged(boolean)				
	causes the PDF result to have extra information (such as alt-text for images) which assist				
	accessibili	ty-tools to present the	PDF document to the	user.	
4	_	document handling of ly if they contain dynar		kmark cross-references will be updated	i .

API Changes
The following API changes should be noted

Class / Interface	Change
ConversionInstruction	New method setPdfTagged (boolean) to add extra information
	to the PDF output for low-vision assistance.

#	Change
1	Fixed a bug where multiple adjacent set-variable fields were causing an error in template analysis.
2	Fixed a bug where template processing wasn't allowing multiple nested conditional sections on a single line with a Docmosis set-variable field.
3	Improved processing to stop blank lines being left in document after Docmosis content is stripped.

[Older] Docmosis v3.2.0 Release Notes

Sep 2014

New Features

Change

- 1 Improvements to the Java download:
 - Library loading and class loading
 - Confirguration and property setting

to allow docmosis embedded converters to be used by multiple applications deployed into same Web or JEE container.

Particularly the new Configuration class allows properties to be set/overridden programmatically.

New "step down" feature to allow templates to traverse data in steps and "down" first instead of across first. This means data can be written down columns as well as across rows. This applies to both repeating sections (eg "<<rs_items:step3down>>") and to table rows (eg "<<rr:items:step3down>>").

For example, given a list/array of items

[a,b,c,d,e,f,g]

the directive

<<rr items:step3Down>>

inside a table will create 3 columns of data and populate the first column top to bottom, then move to the second and third columns:

a	d	g
b	e	
С	f	

Using the same data, the directive:

<<rr items:step2Down>>

inside a table will create 2 columns of data and populate the first column top to bottom, then move to the second:

a	e
b	f
С	g
d	

Docmosis will automatically balance the number of rows to fit the given data into the desired number of columns.

As with the "stepN" directive, the "stepNdown" directive allocates variables names \$i1, \$i2 ... to allow you to reference data in your array. For a "step3down" directive, \$i1 will be the item for column1, \$i2 for column2 and \$i3 for column3. In a table, the "items" data can be mapped to a 3 column down-first table as follows:

#	Change		
- 11	<pre>></pre>		
	<=====================================		
	<er>></er>		
Note that \$i1, \$i2 and \$i3 are automatically created by Docmosis to reach the items to be into the first, second and third column of the current row. The "items" data may be simple or they could be structured objects. If they are simple objects, the above template example render them as expected. If the "items" list contains structured objects, for example person then the following shows how the name of the person can be referenced:			
	< <rr_items:step3down>></rr_items:step3down>		
	<<\$i1.name>> <<\$i2.name>> <<\$i3.name>>		
	< <er_>>></er_>		
3	There is a new tag < <norowcoloring>> (aka <<norowcolouring>>) which disables the automatic row colouring feature of Docmosis when expanding repeating rows in a table. (sometimes table-row colouring is not desirable). The <<norowcoloring>> tag can appear in a table to disable it for that table. The tag can also appear in the text body of the document which will disable the row colouring in all following tables.</norowcoloring></norowcolouring></norowcoloring>		
4	Dates, Booleans and Numeric data passed in as textual information (such as with XML or JSON data) can now be re-formatted by the template. This has been achieved by extending the renderers to also be able to parse data items and even according to specified formats. For example, dates: <mydate{renderer=date('dd mmm="" yyyy')}="">> will render myDate into dd/MMM/yyyy And if your date data is in a special format, you can tell Docmosis how to parse it with a second parameter:</mydate{renderer=date('dd>		
	<pre><<mydate{renderer=date('dd dd="" hh:mm:ss="" mmm="" yyyy')}="" yyyy','eee="" zzz="">> And booleans:</mydate{renderer=date('dd></pre>		
	<pre><<myitem{renderer=boolean('yn')}>> will render myItem into y or n values</myitem{renderer=boolean('yn')}></pre>		
	And numbers: < <myval {renderer="number('\$00.00')}">> will render myVal into \$00.00 style values.</myval>		
	Please see the template guide for more information about the features of the renderers.		
5	Java API and Command Line raw Conversion is now provided by a new API Class: DocumentConverter. This new class does not perform data population based on a template, it is simply to be used to convert between formats (eg ODT->PDF, or DOC->PDF). The DocumentConverter can convert documents at scale using the built in features of Docmosis for scaling document production. A command-line version is provided as shown by example7 in the Docmosis-Java download.		
	Please see the API for more information.		

#	Change	
6	Two new built-in variables have been created:	
	\$rownum	
	\$rowidx	
	These items present the current row number (or row index which starts from zero) when	
	repeating data. These new variables are handy when using the "step" functions which affect the	
	\$itemnum and \$idx variables.	

API Changes
The following API changes should be noted

Class / Interface	Change
Configuration	New class allowing properties to be set programmatically.
SystemManager	A new method: initialise (Configuration configuration) has been added to allow Docmosis to be initialized with programmatic configuration overrides.
DocumentConverter	New class providing direct format conversion rather than document production. Example 7 in the Java download contains a command line example of converting files to multiple formats
DateRenderer	The built in date renderer has been extended to parse dates from text data allowing text data to be interpreted and reformatted. Various date formats are applied by default.
BooleanRenderer	The built in boolean renderer has been extended to parse boolean from text data allowing text data to be interpreted and reformatted
NumberRenderer	New built-in renderer that can reformat numeric data, even when that data is provided in text format.

#	Change
1	Fixed issue where unusual configuration could result in infinite loops in data streaming
2	Fixed issue where occasionally a plain text field might not be recognized as a field in a docX template.
3	Fixed issue whereby document-merging was not working with the latest "fresh" build of Libre Office (4.3.0.4). Libre Office is correcting the bug but we corrected for it anyway.

[Older] Docmosis v3.1.0 Release Notes

May 2014

New Features

#	Change	
1	Reverse engineering support from Templates	
	The TemplateStructureExtractor and TemplateStructureProcessor classes have been extended to allow sample data to be created for a given template. The list of fields, repeating sections, images etc in a template can be obtained in a descriptive form for programs to use.	
	Implementations available by default:	
	SimpleXMLTemplateStructureProcessor — describe a template in XML SimpleJSONTemplateStructureProcessor — describe a template in JSON JSONDummyDataTemplateStructureProcessor — create dummy data in JSON format that can populate a template.	
	These classes allow application code to perform various operations based on knowing the structure and fields of a given template including creating forms and creating examples of how data structures should look.	
	See the Java API for more information (http://www.docmosis.com/resources)	
2	Template Validation	
	Templates can now be run through the validation mechanism to detect errors without registering them.	
	The new DropStoreHelper.validateTemplate() (also available in StoreHelper) method processes a template to determine if there are any errors and returns a TemplateValidationResult with error messages and suggested fixes.	
	See the Java API for more information (http://www.docmosis.com/resources)	
3	"Stepped" Repetition	
	Repeating sections (< <rs_>>) and repeating table rows (<<rr_>>) directives can now "step" through data in "chunks". This allows 1-dimensional data (eg a List or Array) to be transposed into groups of 2, 3, 4 etc. For example, an array of images can now be laid out in the document in pairs or triplets etc - controlled by the template and no need to change the structure of the data.</rr_></rs_>	
	See the Template Guide for more details (<u>http://www.docmosis.com/resources</u>)	

#	Change	
4	Fields can Contain Spaces	
	Space-padded plain text fields are now identified and processed, eg << name >> (with spaces around "name") is still recognized as a field. This helps when using copy and paste of text into fields where word processors may add padding.	
	This can be disabled with the property: docmosis.analyzer.field.allowPadded=false	
5	5 IndexOf() Supported for Strings, Lists and Arrays	
	The template may use < <name.indexof('dave')>> to get have the applicable indexOf() operation invoked for String, List and Array data. For String data, indexOf('dave') returns the index of "dave" within the string data (or -1 if not found). For Lists and Arrays, indexOf() will return the first index of the element equal to "dave" (or -1 if not found).</name.indexof('dave')>	

API Changes
The following API changes should be noted

Class / Interface	Change
RenderRequest	New method to take a template as an InputStream - setTemplateStream()
TemplateStructureProcessor	Added support for creation of data by adding "index" parameter to the repeatBegin() and repeatEnd() methods.

#	Change
1	fixed case where some unmatched section end tags ("< <es_") an="" and="" as="" being="" detected="" error<="" flagged="" not="" td="" where=""></es_")>
2	cleanup of some temporary files being left behind
3	fixed NPE when rendering RTF output on ODT templates with embedded chart objects
4	fixed issue that could cause corrupt document to be produced when trying to write error into document.
5	fixed non-closure of some input streams during processing
6	Fixed possbile exception (NPE) raised when having a rr / er structure with no rows between.

[Older] Docmosis v3.0.6 Release Notes

Dec 2013

Vew	Features	
#	Change	
Built in DOCX support option (requires Libre Office rather than OpenOffice) Libre Office 4 DocX support is improving and Docmosis has been upgrade to make some improvements to the DocX result. Docmosis can use Libre Office to produce DocX direct setting:		
	in the docmosis.properties file	
	The odf-converter (third party free system) is the alternative for DocX and is still likely to produce better results in general, but requires a separate program to be installed.	
2	2 Images are now bundled with HTML output	
	When the rendered document contains images and HTML output is chosen, the images are bundled with the result into a ZIP file. This means that when the HTML result is viewed the images are also displayed.	
	When rendering, if only HTML output is selected, then a HTML text result will be returned (ie no images) by default. To provide the images, a ZIP result is required and this can be requested by: a) Outputting in more than one format (eg HTML and PDF) b) Requesting a ZIP for even a single result (the <i>compressSingleFormat</i> flag)	
3	Improved Error Messages for Unsupported Output Formats	
	If the underlying office engine (Open Office or Libre Office) doesn't support the requested output format, then this is explicitly detected and stated in the error messages. This is important in cases where one engine supports a format and another doesn't (such as with formats XHTML and DocX).	

API Changes

The following API changes should be noted

Class / Interface	Change
DataProviderBuilder	JavaDoc updates for example code

#	Change
1	Added UTF-8 decoding of site key from license to allow multi-byte characters in naming
2	Corrected issue where some error message suggestions were displaying XML (eg <text:s text:c="1"></text:s>)
3	updated to leave templates IN the analyzed stream when info about the image can't be determined. Images were being stripped previously.
4	added new (property-disabled) way to treat templates with spanning-rows with "allow row to break" disabled as an error in the template. This will help where such templates are able to crash Open Office and hence fail to render.
	The property is disabled by default: docmosis.analyzer.error.nonBreakableRowSpanningRowsFatal=false since it is rarely an issue.
5	fixed issue where preserved corrupt file was being cleaned up
	· · · · · · · · · · · · · · · · · · ·
6	Updated bundled docmosis.properties file to contain examples of settings where Libre Office 4 is
	in use.

[Older] Docmosis v3.0.5 Release Notes

Jul 2013

New Features

#	Change
1	Automatic processing of DOCX templates by DropStoreHelper
	DropStoreHelper previously ignored DocX files when loading templates.
2	API additions to Reverse Engineer from Templates
	New classes <i>TemplateStructureExtractor</i> and <i>TemplateStructureProcessor</i> provide the ability to interpret the structure of loaded templates and perform arbitrary processing. The <i>SimpleXMLTemplateStructureProcessor</i> is an example implementation that dumps the template structure into an XML format.
3	XML Data Provision Updates
	When providing data via XML, text data is loaded in a new way to ensure that data that may have an ambiguous meaning is available under both interpretations. For example:
	<data> <a>some data </data>
	Will be loaded into the <i>DataProvider</i> such that a field in the template: < <data.a>></data.a>
	will populate with "some data" (this is the new behavior). The following template structure will also populate with "some data": < <rs data="">></rs>
	<-rs_a>> < <value>></value>
	< <es_a>></es_a>
	(which is the same as the previous behavior). This simply means XML processing should behave more intiuitively.

API Changes
The following API changes should be noted

Class / Interface	Change
TemplateStoreFactory	The method getStore(String) can be passed a custom TemplateStore implementation to load. The parameter format is: custom: <impl class="">[:param] for example: custom:com.MyStoreImp or custom:com.MyStoreImpl:saveLocation1</impl>

#	Change
1	Improved plain text field processing where some fields were not being detected particularly with DOCX format templates.
2	The default example value for the property docmosis.converter.format.docx.external.path in docmosis.properties file has been corrected for linux platforms. It was previously referencing the odf-converter-integrator rather than odf-converter.
3	Javadoc corrected where "wingdings" was being called "windings".
4	Fixed NPE when bgcolor> directive in data was used for docmosis fields that were outside of a table in the template.
5	Fixed a problem where Uploading a template cause cause issues with the converter pool if the Upload crashed OpenOffice

[Older] Docmosis v3.0.4 Release Notes

Feb 2013

New Features

#	Change
1	Improved Literals Processing
	Processing of literal values in template fields has been improved. Docmosis can now process numbers, Strings, boolean (true and false) and null values as constants when assigning variables or creating expressions. For example, the following are valid template fields:
	<cs_{name='fred'}>> test if the value for key "name" is "Fred"</cs_{name='fred'}>
	<pre><<cs {name="null}">> test if the value for key "name" is null (undefined)</cs></pre>

< <cs_{name=null}>></cs_{name=null}>	test if the value for key "name" is null (undefined)
< <cs_{score<10.5}>></cs_{score<10.5}>	test if the value for key "score" is less than 10.5
<<\$m=false>>	set the template-variable "\$m" to false
< <cs_{\$m=true}>></cs_{\$m=true}>	test whether the value for template variable "\$m" is true.
	•

API Changes

The following API changes should be noted None.

#	Change
1	Added default support for OpenOffice installed on Debian Platforms
2	Added default support for LibreOffice 3.6 on linux platforms
3	Lowered default number of document retries to 1 since the Open Office and Libre Office platforms are stable enough that retrying is rarely required
4	Updated field parsing to handle "smart quotes" created by Word 2010 and later
5	Allow template-variables to be set in the cr_ and rr_ rows of tables (where previously they were quietly ignored). This allows variables to be set in rows that are removed during rendering to be defined and used in subsequent processing.
6	Fix - ensure setting the cell colouring via the data only takes effect if the "docmosis.populator.field.markup.process" property is set to true
7	Improved detection of plain text fields where tag contains a quote (') character
8	Fixed issues where only *.docx named files were running through external DOCX converter (and not *.dotx files)

[Older] Docmosis v3.0.3 Release Notes

May 2012

New Features

#	Change		
1	HTML-Like Text Markup		
	The HTML-Like text markup introduced in 3.0.1 has been extended to allow DATA to control the background colour of table cells. If HTML-like markup is active, then any template-field in a table cell can set the background colour by specifying <pre><bgcolor="#rrggbb"></bgcolor="#rrggbb"> as the beginning of the data for the field.</pre>		
	For example, given a template field inside a table: < <myname>></myname>		
	If the data contains for key myName contains: 		
	The field will be populated with the text "James" and the table cell colour will be set to red (#ff0000).		
	The <bgcolor> tag must be the first item in the data. There doesn't need to be any textual data</bgcolor>		
	to match, so you could have the data and the colour in separate fields. As an example the		
	template might look like this:		
	< <myname>><<cellcolour>></cellcolour></myname>		
	And the data could contain have:		
	myName => James		
	<pre>cellColour =><bgcolor="#00ff00"></bgcolor="#00ff00"></pre>		
	and the end result would be a green table cell containing the text James.		

API Changes

The following API changes should be noted None.

#	Change
1	Fixed issue where remote converters could be stalled when something other than Docmosis connects and does the correct handshake.
2	Improved plain text markup processing to capture some cases where Docmosis thought the template was invalid.

[Older] Docmosis v3.0.2 Release Notes

April 2012

New Features

None.

API Changes

The following API changes should be noted

Class / Interface	Change
DataProviderBuilder	Improved handing and error reporting for null keys and values.
RenderRequest	Improved javadoc for interaction with ConversionInstruction
ConversionInstruction	Improved javadoc for getConversionFormats() and some PDF-specific methods. Added some new PDF-specific public constants.

#	Change
1	Fixed issue reducing parallel processing using Libre Office. Did not affect Open Office.
2	Improved data processing to correctly compare null and " (empty string) values between templates and data.
3	Fixed NullPointerException when setting adding null image streams and files and improved messages when null keys used in DataProviderBuilder add() methods.
4	Fixed issue where right-border could disappear when right most columns stripped out of a table using conditional columns and repeating rows. Fixed NullPointerException when a ConversionInstruction passed that has no output formats (ConversionFormat) specified. API documentation improved for ConversionInstruction.
5	Fixed processing to allow RenderRequest settings to work with the contained conversion instruction for determining output formats. API documentation improved for RenderRequest.
6	Updated the shutdown process to provide a grace period for sub-systems to shut down. This fixes spurious errors/warnings during the shutdown process.
7	Updates to some default settings for performance improvements: - io read block size 4k -> 8k - in memory processing limit 8k -> 16k - worker pool max size 10 -> 20 - converter refresh 100 -> 300 - working window for analyser 20 -> 40

[Older] Docmosis v3.0.1 Release Notes

March 2012

This release is for most customers a drop-in replacement for the 2.2.2 release. Few parts of the API have incompatible changes, and specific notes are as follows:

- 1. A new license key is required. License keys for previous versions of Docmosis are not valid. Please visit the Docmosis web site to find out how to obtain your key. If you have purchased a license key within the past 12 months for Docmosis, you will be allowed to upgrade to the new version free of charge.
- 2. Plain text markup in the templates is turned on by default in the docmosis.properties file that comes with the 3.0.1 release. If you are an existing docmosis user, you will need to add the new properties to your docmosis.properties file if you wish to take advantage of plain text markup. See the new features below for details.
- 3. HTML-like interpretation of data is disabled by default. This can be enabled in your docmosis.properties file. See the Section below about HTML-like markup.

New Features

Change 1 Plain Text Markup

Docmosis fields/placeholders can now be written into the document using plain text rather than Open Office Fields or Word merge Fields. This can make template maintenance much simpler.

The feature is turned on by default in the downloaded Docmosis bundle. The default delimiters are << and >>. If you are an existing Docmosis user, can add the following properties to your docmosis.properties file:

```
docmosis.analyzer.field.plainText.prefix=<<
docmosis.analyzer.field.plainText.suffix=>>
```

Example 1 in the download bundle shows plain text markup in use. It is the same as Example 2 except Example 1 uses plain text markup and Example 2 uses merge fields.

Please see the latest *Docmosis Template Guide* in the <u>Support</u> section of the Docmosis site for more information.

2 Image Scaling Options

The template can now indicate three modes of operation when placing images:

- 1. *stretch* images are stretched to fit the template placeholder
- 2. *fit* images are scaled to fit the template placeholder but maintaining the original aspect ratio
- 3. *default* images will be scaled according to the chosen default behaviour which can be overridden on a per-render basis.

The use of "bm_xxx" to identify an image is now deprecated and replaced by:

Change

1. img_xxx - insert the image xxx using the default setting (stretch is the pre-defined default). The stretch/fit behaviour can be changed at the system level using the property: docmosis.analyzer.image.scaling.default=fit|stretch

The behaviour can also be overridden when calling the

DocumentProcessor.render(RenderRequest) method.

- 2. imgstretch_xxx insert the image xxx stretching the image in x and y directions to fit the template placeholder entirely.
- 3. imgfit_xxx insert the image xxx scaling the image to fit the template placeholder, but preserving the aspect ratio of the image.

Please see the latest *Docmosis Template Guide* in the <u>Support</u> section of the Docmosis site for more information.

3 New PDF and Word Controls

Various new features can be specified (see API changes below) for PDF or Word output including

- 1. Password Protect
- 2. Archive Mode and default view for PDF
- 3. PDF Watermarks

Please see the *Docmosis Java API* or the *Docmosis Web Services* Guide in the <u>Support</u> section of the Docmosis site for more information.

4 XML and JSON Data Support

The engine can now work directly with XML and JSON format data (via the DataProviderBuilder) class.

Please see the *Docmosis Java API* in the <u>Support</u> section of the Docmosis site for more information.

5 HTML-like Text Markup

String data can now use a limited set of HTML-style mark-up. This allows bold, italic and underline styles to be applied to a single word, phrase or paragraph.

For example, your data can contain:

This is bold

Which will be rendered as

This is **bold**

This is disabled by default and is controlled by the property:

docmosis.populator.field.markup.process=true

It can be overridden programmatically using the new RenderRequest object for the DocumentProcessor API (see API Changes below). See also example 1 and example 2 in the download which show it in operation for the <<introduction>> placeholder.

#	Change
6	Experimental DocX Support
	OpenOffice and LibreOffice currently perform poor conversions to and from docx format files. We have enabled Docmosis to interact with the ODF Converter (http://sourceforge.net/projects/oci/) which performs much better conversions.
	To use docx support, set the following property in docmosis.properties to indicate where the ODF Converter is installed: docmosis.converter.format.docx.external.path
	eg: docmosis.converter.format.docx.external.path=c:/program files (x86)/odf- converter-integrator/OdfConverter.exe
	You may find it more convenient to install the ODF Converter Integrator (http://katana.oooninja.com/w/odf-converter-integrator) which provides more cross-platform options. Please note the ODF Converter Integrator may reconfigure your host to open docx files with itself rather than Microsoft Word.

API Changes

The following API changes should be noted

Class / Interface	Change
DocumentProcessor	New render method: render (RenderRequest request) allowing all and extended features to be set when rendering. It is intended to be the primary method for use in future.
	The RenderRequest object allows various extra settings including: - using multiple Template Stores - overriding default behaviours including - image scaling behaviour - error handling behaviour - HTML interpretation of text data
DocumentProcessor	render methods now return a result object which includes the number of pages and the size of the document produced.
ConversionInstruction	Many new setter methods to allow format-specific properties to be controlled including: PDF password protect PDF watermarking PDF archive mode (PDF/A-1a) PDF default view settings PDF image compression WORD password protect
DataProviderBuilder	New methods to support XML and JSON format data
TemplateIdentifier	A new constructor (String, String) to make it easy to set the name and context at the same time.
ImageScalingDefault	Class defining the constants that can be used for image scaling

TemplateStoreFactory	The method getStore (String) has been removed. A single template store location is expected to be configured using system properties. New methods have been added to allow store instances to be obtained with overriding settings for:
	- whether template errors are fatal (loading into the store results in an exception) or allowed (templates are stored even with errors which
	can then be shown when rendered)
	- delimiters to use when analysing templates

#	Change
1	Improved processing and reporting of errors in template tables where rows marked as heading rows are used.
2	Improved handling of TemplateIdentifiers and TemplateContexts to ensure Engine, Cache and DropStoreHelper work consistently to identify a template. This corrects a problem where a template update would not be dynamically picked up when rendering.
3	Fixed issue when rendering in multiple formats at the same time - images may not be rendered into final document.
4	Fixed issue where "File In Use" could occur when Update a template on the fly
5	Field Renderers now can be applied in Headers and Footers
6	Fixed NPE that could occur when including an external template and the current template context was "" (empty).
7	Community edition limited to 200 documents per day
8	Improved processing of consecutive spaces which were sometimes condensed to a single space.
9	A reflookup that could not find the template name could result in an error that was not meaningful.

[Older] Docmosis v2.2.2 Release Notes

January 2011

New Features

#	Change
1	New Break Fields
	Docmosis now provides 4 fields as a neater way to insert page and column breaks.
	The first forms will produce a page and column break (for multi-column documents) respectively:
	«pageBreak» «columnBreak»
	The second forms are for use within repeating sections and will insert the corresponding break until the last iteration of the section:
	«pageBreakNotLast» «columnBreakNotLast»
	The new fields can be used instead of or in conjunction with actual page and column breaks in your template. Please see example4 in the download bundle which shows an example use of <i>«pageBreakNotLast»</i> .
2	Image Lookup Extended
	Image lookup has been extended to match the facilities of textual data including nesting (eg my.images.image1) and variables (\$myImage)
3	Corrupt Templates are Detected Earlier
	Previously if badly corrupted documents were used as templates (for example empty
	files or incorrect format) then Docmosis would take minutes to identify this. Now
	such templates are recognised sub-second.
4	Full-Justification Support for Multi-Line Data
	Carriage returns/end-of-line sequences in data now result in the end of a paragraph
	in the resulting document. This is particularly useful when using full-justified
	paragraph formats which would previously display overly-spaced lines.

API Changes

The following API changes should be noted

Class / Interface	Change
DataProviderBuilder	New addJavaObject(Object, String, boolean) method has
	been added to allow "forgiving" mode to be specified
	during Java reflection for data.
DataProviderBuilder	addJavaObject(Object) has been deprecated since it can
	mask other data and such behaviour is not obvious.

#	Change
1	Improved processing and reporting of errors in template tables where rows marked
	as heading rows are used.
2	Corrected logging of class name where Reflection fails to find any method related to
	the template field.
3	Fixed issue where images were not substituting in headers under some conditions

[Older] Docmosis v2.2.1 Release Notes

May 2010

New Features

None

API Changes

The following API changes should be noted

The reme wing the remaining of the order	
Class / Interface	Change
DataProviderBuilder.addJavaObject(Object)	This method has been documented as dangerous due to its
	ability to hide other data. addJavaObject(Object,String) is
	the safe alternative.

#	Change
1	Reflection now populates correctly from non-List Collections such as Set (eg
	TreeSet) and Queue.

[Older] Docmosis v2.2.0 Release Notes

April 2010

New Features

#	Change
1	Template Merging
	Docmosis now allows templates to be referenced by other templates and the
	templates will be merged at processing time. This allows templates to have common
	content to be separated out into shared templates.
	For example, if documents have a standard header layout, they can reference a
	common header template using one of the two new Docmosis fields. This might look like:
	look like:
	«ref:header.doc»
	or
	«refLookup:headerTemplate»
	where the first field would pull in the template called <i>header.doc</i> into the current
	template and the second field would look up the key "headerTemplate" in the data
	provider to get the name of the template to pull in. See the Docmosis Template
	Guide for more information and <i>example5</i> in the download bundle for an example.
2	New Render Methods The DocumentProcess class has new overloaded render methods to assist in
	simplifying document generation. Most notably is the presence of a new Boolean
	parameter to override the default behaviour of cleaning up the DataProvider after the
	render. Reusing the data can be helpful if making separate render calls to produce
	separate documents rather than a single call to produce a zip archive.
3	Reduced IO
	Disk and Network IO has been reduced in the case where the Converters are on the
	same host as the core engine.
4	Improved Error and Diagnostic Handling
	a) 32/64 bit incompatibilities are detected and suggestions are reported. This is
	helpful when using a 64 bit Java and there is no 64 bit OpenOffice (such as
	on Windows and MacOSX). h) Handahaking between the Dogmasis gare and the conventors will report
	b) Handshaking between the Docmosis core and the converters will report versioning issues, status and environmental differences.
5	Improved docmosis.properties
	The example <i>docmosis.properties</i> file has been re-organised to show the critical
	properties first, better documentation and show some of the other important
	properties.

API Changes

The following API changes should be noted

Class / Interface	Change
DocumentProcessor	New renderDoc() methods allowing easier access to re-
	using the same DataProvider between calls. Previously

only one method allowed this to be specified (within the
ConversionInstruction)

#	Change
1	Repeating Table Rows now allow for conditional rows and hence keep border and
	background styling features
2	Improvements to rendering errors into the resulting document in corner cases where
	error was not reported
3	Improvements to ODT (OpenOffice Writer) template processing for end of section
	detection.
4	Improvements to JavaDoc information

[Older] Docmosis v2.1.1 Release Notes

February 2010

#	Change
1	OpenOffice 3.2 support
	OpenOffice has a great new release which has no serious bugs as far as Docmosis is
	concerned. The previous two production releases (3.0.1 and 3.1.0) had bugs that
	were not ideal for typical Docmosis use.
	OpenOffice 3.2 changes a few things under the hood so Docmosis had to upgrade to
	match.
2	New options to control the way Docmosis loads OpenOffice jars and native libraries.
	This allows Docmosis to launch the Converters itself rather ("embedded converters")
	rather than this requiring a separate script (eg runConverter.sh). This means setup is
	simpler for smaller systems.
	The launching works from within more Web Application Servers than before, such
	as JBoss5, Glassfish etc. Note: using "embedded converters" implies you are
	running everything on the same machine as opposed to a load-distribution
	configuration.
	To use embedded converters, update see the information in the example
	converterPoolConfig.xml file.
	The primary new property allowing control over the library loading is:
	docmosis.openoffice.useCustomLoader=true false
	This property defaults to <i>false</i> but if you have linkage errors, particularly when
	using embedded converters, you can try setting this to <i>true</i> to load the libraries in a
	different fashion.
3	The property template.store.location can now be left blank, in which case Docmosis
	will create a temporary area to work with for the template cache.

[Older] Docmosis v2.1.0 Release Notes

November 2009

New Features

#	Change
1	Hyperlink Insertion
	Docmosis can now insert active hyperlinks into documents. A link placeholder is
	inserted into the template using a name with a "link_" prefix. For example a field
	«link_myWebSpace»
	will look up the data provider using the key "myWebSpace" and render the result as
	a hyperlink. Further, the data provided can be delimited using a pipe symbol (" ") to
	name the link differently from the address.
	For example, given the field above, a data value of
	"http://www.mywebspace.com/bluk" would be rendered as a hyperlink and display
	the text "http://www.mywebspace.com/bluk" in the document. If the data value was
	"mywebspace http://www.mywebspace.com/bluk", the link would be rendered into
	the document displaying the text "mywebspace".
	See <i>example1</i> in the download bundle to see it in action.

API Changes

The following API changes should be noted

Class / Interface	Change
DataProviderBuilder	addFile() methods now allow character encoding to be specified.
StoreHelper	New storeTemplate() method that can take an
Storerreiper	2
	InputStream as the source of the template rather than just
	file-based templates.
DropStoreHelper	New process methods to allow Zip and Jar files of
	templates to be processed directly, or from URLs to
	Resources from a class loader.

#	Change
1	Expressions Enhanced - general improvements
	i. default boolean true test
	cs_{isFriend()} was previously invalid, but now evaluates isFriend() as a
	boolean as expected.
	ii. null tests supported
	cs_{getAlpha()=null}
	iii. size() capability broadened
	now also applies to any non-reflective data sources
	iv. isEmpty() capability added
	cs_{getFriends().isEmpty()}

2	Fixed issue where rs_, cs_ and es_ tags at the first line of a template page could
	result in extra blank lines in output documents.
3	Added toString() to TemplateAnalysis implementation to allow dumping of analysis
	information.
4	Fixed issue with nested anonymous er_tags failing template registration.
5	Fixed issue with second and subsequent Tables Of Content/Tables of Figures etc not
	being updated correctly.
6	Improved handling of java.sql.Time data type.
7	Subtle fixes to template caching and warnings for large templates
8	Fixes to DataProviderBuilder.addJavaObject(name, Object) so that it works with
	Collection/Array data types and allows them to be referenced directly by the name
	given.
9	The connection to OpenOffice will complain with a specific message about
	unsupported Java version if the OpenOffice API is not compatible with the version
	of Java in use.
10	Improved population of non-ascii characters to support multiple languages and
	symbology.