

Docmosis v4.4.1 Release Notes

Dec 2018

New Features / Changes

#	Change
1	New template functions: <ul style="list-style-type: none">- replaceStr(source, searchFor, replaceWith [, ignoreCase])- replaceFirst(source, searchFor, replaceWith [, ignoreCase])

API Changes

The following API changes should be noted

Class / Interface	Change

Bug Fixes / Technical Changes

#	Change
1	Improved converter bootstrapping process to prime the converter with a more realistic document. This avoids the increased processing time for a first-time-used converter.
2	Fixed issue where table-cell colouring wasn't being applied (when driven by data eg '<bgcolor="#ff0000"/>') to table cell when field providing the style information was number or bullet listed
3	Fixed issue with DOCX image substitution from DOCX templates that could result in the image not being sized correctly and the text 0.00.0 being displayed.
4	Fixed issue where <<cc_>>, <<rr_>>, <<cr_>> tags might be ignored if list-styled (bullet or numbered) in the template.
5	Fixed an issue with TableAnalysis which could mis-track which cell is being processed across the row.
6	Adjusted error handling to not report bad section matches when ending a list if errors have already been reported. This stops two errors being reported for one problem.

Docmosis v4.4.0 Release Notes

Oct 2018

New Features / Changes

#	Change
1	Support for Java up to version 11
2	Support for LibreOffice 6
3	Improved Error Handling in Dev Mode Top level errors now written closer to the location of the error rather than top of document.
4	Improved XML and JSON Sample Data Generation Generated JSON data is now more compact. Sample data generation now supports nested names. For example: <code><<a.b.c>></code> Generates the sample data: <code>{"a": {"b": {"c": "value1"}}</code>
5	New sentenceCase(), isBlank(), ifBlank(), and squote() Functions Use <code>sentenceCase()</code> to convert text data to sentence case format: <code>sentenceCase('this is a sentence.') => This is a sentence.</code> Use <code>isBlank()</code> or <code>ifBlank()</code> to test and act based on blank data values: <code>isBlank('') => true</code> Use <code>squote()</code> to replace double quotes with single quotes in a string literal or data to allow quote-escape: <code>squote('This sentence"s quotes.') => This sentence's quotes.</code>

#	Change
6	<p>New Built-In Template Variables</p> <p><code>\$num</code> - the current counter into the data.</p> <p><code>\$num1, \$num2...</code> – provide the absolute index into the repeating sequence starting at zero (i.e. 1,2,3,4,5,6...).</p> <p><code>\$itemidx1, \$itemidx2...</code> – provide the absolute index into the repeating sequence starting at zero (i.e. 0,1,2,3,4,5...).</p> <p><code>\$nl</code> - a new line character.</p> <p><code>\$nowMS</code> – the current UTC time in milliseconds since epoch</p> <p><code>\$nowUTC</code> - current UTC time as an ISO 8601 string</p> <p><code>\$quot</code> - a single-quote character</p>
7	<p>Improved Numbered List Processing</p> <p>Now handles more complex cases of:</p> <ul style="list-style-type: none"> - conditioning out some numbered items and resuming numbering - lists continue after sub-lists rendered - allow lists to continue from master template into sub-template using a new "<code><<list:continue>></code>" directive

API Changes

The following API changes should be noted

Class / Interface	Change
TemplateStructureElement	New isHyperlink() method determines if the current element is a hyperlink.
TemplateStructureElement	New getContainingNest() method determines if the current element has a nested name.

Bug Fixes / Technical Changes

#	Change
1	Added ability use SSL for remote converters.
2	Improved template-functions to not raise errors when given null values.
3	Improved rendering of merged documents by renaming styles to remove conflict of styles.
4	Updated further functions to handle null/empty params better.
5	Updated remote converter to preserve the extension of the files being transferred. This fixes an issue with HTML injection where the file encoding is not correct if Libre Office imports the file and doesn't realize it is html.

#	Change
6	Added <<list:continue>> directive to allow sub-templates to specify they want to continue numbering from a master template.
7	Improved list processing to track the lists rendered so that stripped lists (e.g. conditional sections) don't break linkages between lists.
8	Fixed bug in TemplateContext constructor which wasn't correctly removing duplicate "/" characters.
9	Fixed bug in SimpleJSONTemplateStructureProcessor.finish() which wasn't keeping the adjustment to the indent variable.
10	Fixed issue with SimpleTemplateTable.hashCode() which was not correctly hashing the array.
11	Updated repeating section processing to correctly handle more complex cases of repeating and variable references. This also fixes a corner case problem with <<pageBreakNotLast>> not working after an internal <<rs_a.b.c>>blah<<es_>> upset the indexing.
12	Fix to writing in-document errors into header and footer (some were hiding).
13	Updated bookmark and image processing to be able to use a bookmark that appears just after the image frame rather than wrapping the image. This helps with imports of Docx files in LO5 and looks like it helps with DOC files where the image has a different wrap mode.
14	Corrected processing of [F-L] type range directives which were doing the wrong thing under some cases.
15	Updated stepping and indexing processes - allows more flexible ranges e.g. [1,2,1,1,2].
16	Improved error messages from template-functions - provide function name in message.
17	Fixed issue resulting in corrupt documents when new line characters in data were mixed with html-like (, <u>, etc.) directives.
18	Fix to HTML injection where <<html:xxx>> fields being last element in a paragraph could leave "repairme" message.

[Older] Docmosis v4.3.0 Release Notes

Nov 2017

New Features / Changes

#	Change
1	<p>Number Formatting more control over Locale</p> <p>The “numFormat” template now supports a new optional parameter to be able to enable / disable the application of the specified Locale when parsing the supplied data:</p> <pre><<{numFormat(value, outputFormat, locale, applyLocaleToInput)}>></pre> <p>The default behavior is to apply the locale to both the input and output, however this is incorrect in some circumstances. For example:</p> <pre><<{numFormat('0.0257', '#.##0,##', 'nl')}>></pre> <p>Incorrectly produces “257” because the “nl” locale is applied when parsing 0.0257 into a number. This can now be corrected by disabling the parse-phase conversion:</p> <pre><<{numFormat(0.0257, '#.##0,##', 'nl', false)}>></pre> <p>So the correct result (“0,03”) is produced.</p>

API Changes

The following API changes should be noted

Class / Interface	Change
DataProviderBuilder	addJSONFile() method now assumes UTF-8 data in the given file.

Bug Fixes / Technical Changes

#	Change
1	Improved template-expression processing: <ul style="list-style-type: none">- processing of unary operators (NOT in particular)- processing of more complex logical expressions - booleans handled better.
2	Improvements to streams dealing with UTF-8 content
3	Improved shutdown process with regards to closing the stderr stream and possible blocking scenario.
4	Improved document processing when merging templates and injecting HTML content to handle

#	Change
	more complex cases involving page layout changes and large tables. The result is the layout is more consistent with the templates involved.
5	Improved issue with LibreOffice 5 installations on Windows platforms where OpenGL processing could cause DocX processing in particular to fail.
6	Improved barcode processing to report errors if barcode is longer than 200 chars.
7	Fix to another corner case of plain text fields not being recognized where expressions where using the ">" greater than operator.
8	Template processing improved with fixes for complex scenarios where errors in templates were unable to be reported and would result in a general failure to process the template instead of correctly indicating the error in the template.
9	Fixed issue where blank "fillin" fields in Word templates were being raised as a general error with no helpful specifics.
10	Fixed template processing error where a table contained repeating rows then a conditional row directive but with no rows inside the condition.
11	Improved "null" error message when a problem occurs processing a template so that implementation can be corrected.

[Older] Docmosis v4.2.0 Release Notes

Jun 2017

New Features / Changes

#	Change
1	<h3>Comments in Templates</h3> <p>The templates can now contain comments. There are two sets of delimiters:</p> <p><code><<## and ##>></code> and <code><</* and */>></code></p> <p>As an example:</p> <pre><<## The following section of the template is regarding xxx ##>> Normal template <<information>></pre> <p>Comments can span multiple lines:</p> <pre><<## The following section of the template is regarding xxx ##>> Normal template <<information>></pre> <p>The two sets of delimiters mean that comments can be nested (one type of comment within another) which can help during development. The following illustrates some normal content with comments being completely commented out by the outer comment delimiters:</p> <pre><</* <<## The following section of the template is regarding xxx ##>> Normal template <<information>> <<## The following section of the template is regarding xxx ##>> Normal template <<information>> */>></pre> <p>See the Docmosis Template Guide for more details.</p>

#	Change
2	<p>Optional Paragraph Fields</p> <p>When a normal template field has no data, the paragraph containing the field remains in the document. For example:</p> <pre><<addressLine1>> <<addressLine2>> <<country>></pre> <p>Would create:</p> <pre>5 Hasler Rd Australia</pre> <p>leaving a blank line if there was no data for “addressLine2”. Optional paragraph fields (identified by the prefix “op:”) remove the containing paragraph if there is no data:</p> <pre><<addressLine1>> <<op:addressLine2>> <<country>></pre> <p>So the same data would result in the more desirable:</p> <pre>5 Hasler Rd Australia</pre> <p>Optional fields also help with numbered and bullet lists, removing redundant items if the related data is not present. Optional paragraph fields always remove entire paragraphs so can remove multiple lines from documents.</p> <p>See the Docmosis Template Guide for more details.</p>
3	<p>PDF Form Fields can be Pre Filled</p> <p>Templates (ODT format templates only) can create Fillable PDF form fields and pre-populate them. This means that completed or semi completed electronic PDF forms can be generated.</p> <p>See the Docmosis Template Guide for more details.</p>

API Changes

The following API changes should be noted

Class / Interface	Change

Bug Fixes / Technical Changes


#	Change
1	Fixed issue where dynamic images in repeating sections would not render when using versions of Libre Office after version 5.0.
2	Fixed issues where Libre Office versions after 5.0 would not process a template that was open and modified.
3	Improved diagnostics logging for 32-bit / 64-bit mismatch between Java and Libre Office
4	Improved error message when missing section ends are detected
5	Increased plain text default max length from 150 to 1024 characters to support long template expressions
6	Fixed corner-case “null” error when processing complex tables with varying numbers of columns in rows that are repeating.
7	Fixed some character stream outputs which were not writing in UTF-8 explicitly.
8	Improved date parsing to fall-back if performing “Strict” matching and strict matching fails. This provides date parsing that succeeds correctly even when ambiguities are present.
9	Fixed HTML injection issue where inserting blank HTML into a table would leave a “repairme” indicator
10	Improved document loading to explicitly disable macros in templates when loading.

[Older] Docmosis v4.1.0 Release Notes

Aug 2016

New Features / Changes

#	Change
1	<p>Date Rendering has “sticky” timezone.</p> <p>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.</p> <p>For example, if the input data format specifies timezone CST, then the output format implicitly uses CST also.</p> <p>Legacy behavior can be enabled by setting: <code>docmosis.renderer.dateDisableTimezoneDataPersistence=true</code></p>
2	<p>Literals Parsing Improved.</p> <p>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.</p>
3	<p>Docx Enabled by Default.</p> <p>Docx processing is now enabled by default. This requires LibreOffice which has DOCX support, or the ODFConverter to be used if using Open Office.</p>
4	<p>TIFF Image Support.</p> <p>TIFF images are now supported in the templates and data streams.</p>
5	<p>New toAlpha(), toAlpha2(), toRoman() Functions.</p> <p>New number formatting functions toAlpha, toAlpha2, toRoman 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:</p> <pre><<rs_items>> <<{toAlpha(\$itemnum)}>> . This is an item <<es_>></pre> <p>Would produce output like:</p> <ul style="list-style-type: none">a) . This is an itemb) . This is an itemc) . This is an itemd) . This is an item...

#	Change
	<p><code>toAlpha()</code> maps numbers to a, b, c..., y, z, aa, bb, cc, dd etc. For example:</p> <pre>toAlpha(1) => a toAlpha(26) => z toAlpha(27) => aa toAlpha(28) => bb</pre> <p><code>toAlpha2()</code> maps numbers to a, b, c..., y, z, aa, ab, ac, ad etc. For example:</p> <pre>toAlpha2(1) => a toAlpha2(26) => z toAlpha2(27) => aa toAlpha2(28) => ab</pre> <p>which is the same as <code>toAlpha()</code> except when hitting double letters.</p> <p><code>toRoman()</code> maps numbers to Roman Numerals. For example:</p> <pre>toRoman(1) => i toRoman(26) => ii toRoman(27) => xxvii toRoman(28) => xxviii</pre>
	<p>Barcodes supported by default:</p> <ul style="list-style-type: none"> - Code 128 - Code 39 - ITF 14 <p>Adding a barcode is easy and quite configurable. See the Docmosis Template Guide for details.</p> <p>You will also need barcode4j.jar (from http://barcode4j.sourceforge.net/).</p> <div style="text-align: center;">  </div>

API Changes

The following API changes should be noted

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

Bug Fixes / Technical Changes

#	Change
1	Fixed bug in <code>FileUtilities</code> where unzipping a zip file with sub folders was failing because the 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 <code>:stepN</code> 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 <code><<rr_>></code> or <code><<ref:>></code> fields existed, but no tables in the document had lookup fields.
7	Reduced diagnostics logging for the <code>ExpressionFunctionAdapter</code> 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	<h3>If / Else / Else-If Support in Conditional Sections</h3> <p>Simple “else” looks like this:</p> <pre><<cs_true>> true <<else>> false <<es_>></pre> <p>“else-if” is written like this:</p> <pre><<cs_isPerson>> I have a person <<else_isPlant>> I have a plant <<else>> I have something I didn't expect <<es_isPerson>></pre> <p>Conditional Sections Support the new Expression Syntax (described below)</p> <p>Eg:</p> <pre><<cs_{val < 10.0}>> Low value = <<val>> <<else_{val > 100.0}>> High value = <<val>> <<else>> Nominal value = <<val>> <<es_>></pre>
2	<h3>New Expression Engine</h3> <p>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.</p> <p>Expressions in Docmosis templates are still delimited by the braces (“{” and “}”) characters. Expressions can now include:</p> <ul style="list-style-type: none">• Precedence using the brackets “(“ and “)” characters• Mathematical expressions• Mathematical and String functions• Boolean logic

#	Change
3	<p>Direct Expression Evaluation</p> <p>Fields which are expressions can be used to insert data into documents. For example:</p> <pre><<{1 + 2 + 3}>> <<{round(val/100,2)}>>% <<{titleCase(firstName + ' ' + lastName)}>></pre>
4	<p>Assignment of Expressions to Variables</p> <p>Variables can now be assigned the results of expressions: << \$m={expr} >></p> <p>Eg. <<\$m={round(1+ceil(2*3.5))}>> round(1+ceil(2*3.5)) = <<\$m>></p>
5	<p>Boolean Logic</p> <pre><<cs_{val1 (val2 && val3)}>> val1 is true or both val2 and val3 are true <<es_>></pre>
6	<p>Maths functions</p> <p>Typical math functions are supported. Eg. <<{max(4.522, 4.5)}>></p> <p>The round() function has been extended to support an optional precision:</p> <pre><<{round(1.236)}>> <<{round(1.236, 2)}>></pre> <p>The precision also pads: <<{round(1.2, 5)}>></p>
7	<p>String Functions</p> <p>charAt, compareTo, compareToIgnoreCase, concat, endsWith, equals, equalsIgnoreCase, indexOf, lastIndexOf, length, replace (character replacement), startsWith, substring, toLowerCase, toUpperCase, Trim, map, titleCase, split,</p> <p>eg:</p> <pre><<{equals('a','b')}>> <<{indexOf('abc','b')}>> <<{startsWith('this is', 'this')}>> <<{titleCase('joe blogs')}>></pre>

#	Change
8	<p>Formatting Functions</p> <p>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 Docmosis.</p> <pre>numFormat(<value>, <format>[, <locale>]) <<{numFormat(value1, '###,###.00')}>></pre> <pre>dateFormat(<value>[, <output format>[, <input format>]]) <<{dateFormat(value1, 'dd/MM/yy', 'dd-MMM-yyyy')}>></pre>
9	<p>Operators</p> <p>The well known operators are supported:</p> <pre>() + - * / % + - = == != < <= > >= && !</pre>
10	XML population has been updated to allow "\r" to result in paragraph insertion (in addition to "\r\n" and "\n"). This helps XML data processing where the xml contains this type of new lines.
11	Logging is by default quieter now with more logging information moved to DEBUG/FINE level.
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 <<link:xxx>> but the <<link_xxx>> format is still supported.
13	<p>Docmosis can be managed without configuration files. The new Configuration class provides an api for controlling settings:</p> <pre>Configuration config = Configuration.standard(); config.setConverterPoolConfiguration("1"); config.setOfficeLocation(loInstallPathStr); config.setKeyAndSite(siteStr, keyStr); SystemManager.initialise(config);</pre>
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[][][].

Class / Interface	Change
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.
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.

Bug Fixes / Technical Changes

#	Change
1	Improved hyperlink insertion to deal with being given blank data. This was corrupting DOC output.
2	Fixed DocumentConverter which was leaking BasicDocuments and relying on finalizer to cleanup
3	Updated LocalOpenOfficeConverter which was hanging onto the inputstreams from spawned docx converters.
4	Updated OpenOfficeServerLauncher to clean up launched Processes better.
5	Updated field parsing to handle more cases where set-variable fields occurring in redundant paragraphs (blank lines) was causing parsing errors.
6	Improved injection of errors into the document (in "dev" mode): <ul style="list-style-type: none"> - Errors not being visible in the document - stopping template errors highlighting in red
7	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.
8	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.
9	Improved debug dump toString() of MemoryDataProvider to show blank keys.
10	Improve population of <<rs_ \$this>> and <<rs_ \$current>> to work with JSON anonymous arrays of arrays.
11	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.

#	Change
12	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".
13	Added configurable diagnostics logging to the DateRenderer
14	Increased the default window size for xml processing for templates with large/complex paragraphs particularly in docx format.
15	Fixed issue where hidden ("_GoBack") bookmarks created by new versions of word (Mac) were causing blank paragraphs to be left behind.
16	Updated default settings to use more memory during template upload (4k to 8k) analyzing templates but improve performance.
17	Updated error handling for when a start or end tag is in a list (but not the matching tag) - causing the related other tag to be lost/remote
18	Updated MemoryDataProvider to delete any created temp files for images when the same 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: <ul style="list-style-type: none"> - 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: <pre>docmosis.populator.field.markup.process=true</pre> whereas it was previously disabled by default. <p>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.</p>
30	The location of the "template store" which is a file-system cache of analysed templates now

#	Change
	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: <code>docmosis.template.store.location=./templateStore</code>
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: <code>docmosis.document.converter.pool.config.resource=converterPoolConfig.xml</code>

[Older] Docmosis v3.3.0 Release Notes

Jan 2015

New Features

#	Change
1	<p>New HTML-injection feature. The new tag: <code><<html:myData>></code> will process the given data as html and render the html into the document.</p> <p>So, the following HTML:</p> <pre><p style="border:1px solid orange; width:100%">this is the beginning of html content</p> <h1>This is H1</h1> The heading styles come from the template by default. This H1 heading comes from the template. <h2>This is H2</h2> This H2 is simply a default style from the template also. <h3 style="color:red">This is H3</h3> <p style="width:100%"> We made the above H3 red in the HTML with local style. Interesting. Local styles are important. </p> <table width="100%"><tr> <td style="text-align:center;border:1px solid gray;background-color:#555555">Cell 1</td> <td style="text-align:center;border:1px solid gray;background-color:#555555">Cell 2</td> <td style="text-align:center;border:1px solid gray;background-color:#555555">Cell 3</td> </tr><tr> <td style="border:1px solid gray">And again</td> <td style="border:1px solid gray">more html</td> <td style="border:1px solid gray">and even more</td> </tr><tr> <td style="border:1px solid gray">&nbsp;</td> <td style="border:1px solid gray">10.42</td> <td style="border:1px solid gray">Summary</td> </tr></table> <p>&nbsp;</p> <p style="border:1px solid orange; width:100%">this is the end of html content</p></pre> <p>Will render into a <code><<html:myData>></code> field like this:</p>

#	Change									
	<div style="border: 1px solid orange; padding: 5px;"> <p>this is the beginning of html content</p> <p>This is H1</p> <p>The heading styles come from the template by default. This H1 heading comes from the template.</p> <p>This is H2</p> <p>This H2 is simply a default style from the template also.</p> <p>This is H3</p> <p>We made the above H3 red in the HTML with local style. Interesting. Local styles are important.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #333; color: white;">Cell 1</th> <th style="background-color: #333; color: white;">Cell 2</th> <th style="background-color: #333; color: white;">Cell 3</th> </tr> </thead> <tbody> <tr> <td>And again</td> <td>more html</td> <td style="background-color: #ffcc00;">and even more</td> </tr> <tr> <td></td> <td>10.42</td> <td>Summary</td> </tr> </tbody> </table> <p>this is the end of html content</p> </div>	Cell 1	Cell 2	Cell 3	And again	more html	and even more		10.42	Summary
Cell 1	Cell 2	Cell 3								
And again	more html	and even more								
	10.42	Summary								
2	Image Alt Text can now be dynamically changed. Adding a Docmosis tag to the alt-text of an image will cause document processing to process the tag and update the alt-text.									
3	Accessibility updates for PDF output. To allow PDF documents to be more useful to low-vision users. The API call: <code>ConversionInstruction.setPdfTagged(boolean)</code> causes the PDF result to have extra information (such as alt-text for images) which assist accessibility-tools to present the PDF document to the user.									
4	Improved document handling of document fields –bookmark cross-references will be updated dynamically if they contain dynamic content.									

API Changes

The following API changes should be noted

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

Bug Fixes / Technical Changes

#	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

#	Change
	stripped.

[Older] Docmosis v3.2.0 Release Notes

Sep 2014

New Features

#	Change																	
1	<p>Improvements to the Java download:</p> <ul style="list-style-type: none">- Library loading and class loading- Configuration and property setting <p>to allow docmosis embedded converters to be used by multiple applications deployed into same Web or JEE container.</p> <p>Particularly the new Configuration class allows properties to be set/overridden programmatically.</p>																	
2	<p>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>>”).</p> <p>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:</p> <table border="1"><tbody><tr><td>a</td><td>d</td><td>g</td></tr><tr><td>b</td><td>e</td><td></td></tr><tr><td>c</td><td>f</td><td></td></tr></tbody></table> <p>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:</p> <table border="1"><tbody><tr><td>a</td><td>e</td></tr><tr><td>b</td><td>f</td></tr><tr><td>c</td><td>g</td></tr><tr><td>d</td><td></td></tr></tbody></table> <p>Docmosis will automatically balance the number of rows to fit the given data into the desired number of columns.</p> <p>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</p>	a	d	g	b	e		c	f		a	e	b	f	c	g	d	
a	d	g																
b	e																	
c	f																	
a	e																	
b	f																	
c	g																	
d																		

#	Change																		
	<p>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:</p> <table border="1"> <tr> <td colspan="3"><<rr_items:step3Down>></td> </tr> <tr> <td><<\$i1>></td> <td><<\$i2>></td> <td><<\$i3>></td> </tr> <tr> <td colspan="3"><<er_>></td> </tr> </table> <p>Note that \$i1, \$i2 and \$i3 are automatically created by Docmosis to reach the items to be placed into the first, second and third column of the current row. The “items” data may be simple data or they could be structured objects. If they are simple objects, the above template example will render them as expected. If the “items” list contains structured objects, for example person data, then the following shows how the <code>name</code> of the person can be referenced:</p> <table border="1"> <tr> <td colspan="3"><<rr_items:step3Down>></td> </tr> <tr> <td><<\$i1.name>></td> <td><<\$i2.name>></td> <td><<\$i3.name>></td> </tr> <tr> <td colspan="3"><<er_>></td> </tr> </table>	<<rr_items:step3Down>>			<<\$i1>>	<<\$i2>>	<<\$i3>>	<<er_>>			<<rr_items:step3Down>>			<<\$i1.name>>	<<\$i2.name>>	<<\$i3.name>>	<<er_>>		
<<rr_items:step3Down>>																			
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<<er_>>																			
<<rr_items:step3Down>>																			
<<\$i1.name>>	<<\$i2.name>>	<<\$i3.name>>																	
<<er_>>																			
3	<p>There is a new tag <code><<noRowColoring>></code> (aka <code><<noRowColouring>></code>) which disables the automatic row colouring feature of Docmosis when expanding repeating rows in a table. (sometimes table-row colouring is not desirable).</p> <p>The <code><<noRowColoring>></code> 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.</p>																		
4	<p>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.</p> <p>For example, dates:</p> <p><code><<myDate{renderer=date('dd/MMM/yyyy')}>></code> will render myDate into dd/MMM/yyyy</p> <p>And if your date data is in a special format, you can tell Docmosis how to parse it with a second parameter:</p> <p><code><<myDate{renderer=date('dd/MMM/yyyy','EEE MMM dd HH:mm:ss zzz yyyy')}>></code></p> <p>And booleans:</p> <p><code><<myItem{renderer=boolean('yn')}>></code> will render myItem into y or n values</p> <p>And numbers:</p> <p><code><<myVal{renderer=number('\$00.00')}>></code> will render myVal into \$00.00 style values.</p> <p>Please see the template guide for more information about the features of the renderers.</p>																		

#	Change
5	<p>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.</p> <p>A command-line version is provided as shown by example7 in the Docmosis-Java download.</p> <p>Please see the API for more information.</p>
6	<p>Two new built-in variables have been created:</p> <p>\$rownum \$rowidx</p> <p>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.</p>

API Changes

The following API changes should be noted

Class / Interface	Change
Configuration	New class allowing properties to be set programmatically.
SystemManager	<p>A new method:</p> <pre>initialise(Configuration configuration)</pre> <p>has been added to allow Docmosis to be initialized with programmatic configuration overrides.</p>
DocumentConverter	New class providing direct format conversion rather than document production. Example7 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.

Bug Fixes / Technical Changes

#	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

#	Change
	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	<p>Reverse engineering support from Templates</p> <p>The <code>TemplateStructureExtractor</code> and <code>TemplateStructureProcessor</code> 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.</p> <p>Implementations available by default:</p> <ul style="list-style-type: none"><code>SimpleXMLTemplateStructureProcessor</code> – describe a template in XML<code>SimpleJSONTemplateStructureProcessor</code> – describe a template in JSON<code>JSONDummyDataTemplateStructureProcessor</code> – create dummy data in JSON format that can populate a template. <p>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 .</p> <p>See the Java API for more information (http://www.docmosis.com/resources)</p>
2	<p>Template Validation</p> <p>Templates can now be run through the validation mechanism to detect errors without registering them.</p> <p>The new <code>DropStoreHelper.validateTemplate()</code> (also available in <code>StoreHelper</code>) method processes a template to determine if there are any errors and returns a <code>TemplateValidationResult</code> with error messages and suggested fixes.</p> <p>See the Java API for more information (http://www.docmosis.com/resources)</p>
3	<p>“Stepped” Repetition</p> <p>Repeating sections (<code><<rs_>></code>) and repeating table rows (<code><<rr_>></code>) 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.</p> <p>See the Template Guide for more details (http://www.docmosis.com/resources)</p>

#	Change
4	<p>Fields can Contain Spaces</p> <p>Space-padded plain text fields are now identified and processed, eg <code><< name >></code> (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.</p> <p>This can be disabled with the property: <code>docmosis.analyzer.field.allowPadded=false</code></p>
5	<p>IndexOf() Supported for Strings, Lists and Arrays</p> <p>The template may use <code><<name.indexOf('dave')>></code> to get have the applicable <code>indexOf()</code> operation invoked for String, List and Array data. For String data, <code>indexOf('dave')</code> returns the index of "dave" within the string data (or -1 if not found). For Lists and Arrays, <code>indexOf()</code> will return the first index of the element equal to "dave" (or -1 if not found).</p>

API Changes

The following API changes should be noted

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

Bug Fixes / Technical Changes

#	Change
1	fixed case where some unmatched section end tags (" <code><<es_</code> ") were not being detected and flagged as an error
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 possible exception (NPE) raised when having a <code>rr_ / er_</code> structure with no rows between.

[Older] Docmosis v3.0.6 Release Notes

Dec 2013

New Features

#	Change
1	<p>Built in DOCX support option (requires Libre Office rather than OpenOffice)</p> <p>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 directly by setting:</p> <pre>docmosis.converter.format.docx.internal.enabled=true</pre> <p>in the <code>docmosis.properties</code> file</p> <p>The <code>odf-converter</code> (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.</p>
2	<p>Images are now bundled with HTML output</p> <p>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.</p> <p>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:</p> <ol style="list-style-type: none">Outputting in more than one format (eg HTML and PDF)Requesting a ZIP for even a single result (the <code>compressSingleFormat</code> flag)
3	<p>Improved Error Messages for Unsupported Output Formats</p> <p>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).</p>

API Changes

The following API changes should be noted

Class / Interface	Change
<code>DataProviderBuilder</code>	JavaDoc updates for example code

Bug Fixes / Technical Changes

#	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"/>)
3	updated to leave templates IN the analyzed stream when info about the image can't be determined. Images were being stripped previously.
4	<p>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.</p> <p>The property is disabled by default:</p> <pre>docmosis.analyzer.error.nonBreakableRowSpanningRowsFatal=false</pre> <p>since it is rarely an issue.</p>
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	<p>Automatic processing of DOCX templates by DropStoreHelper</p> <p>DropStoreHelper previously ignored DocX files when loading templates.</p>
2	<p>API additions to Reverse Engineer from Templates</p> <p>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.</p>
3	<p>XML Data Provision Updates</p> <p>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:</p> <pre><data> <a>some data </data></pre> <p>Will be loaded into the <i>DataProvider</i> such that a field in the template:</p> <pre><<data.a>></pre> <p>will populate with "some data" (this is the new behavior). The following template structure will also populate with "some data":</p> <pre><<rs_data>> <<rs_a>> <<value>> <<es_a>> <<es_data>></pre> <p>(which is the same as the previous behavior). This simply means XML processing should behave more intuitively.</p>

API Changes

The following API changes should be noted

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

Bug Fixes / Technical Changes

#	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 <code>docmosis.converter.format.docx.external.path</code> in <code>docmosis.properties</code> file has been corrected for linux platforms. It was previously referencing the <code>odf-converter-integrator</code> rather than <code>odf-converter</code> .
3	Javadoc corrected where “wingdings” was being called “windings”.
4	Fixed NPE when <code><bgcolor></code> 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: <table border="1"><tbody><tr><td><<cs_{name='Fred'}>></td><td>test if the value for key "name" is "Fred"</td></tr><tr><td><<cs_{name=null}>></td><td>test if the value for key "name" is null (undefined)</td></tr><tr><td><<cs_{score<10.5}>></td><td>test if the value for key "score" is less than 10.5</td></tr><tr><td><<\$m=false>></td><td>set the template-variable "\$m" to false</td></tr><tr><td><<cs_{\$m=true}>></td><td>test whether the value for template variable "\$m" is true.</td></tr></tbody></table>	<<cs_{name='Fred'}>>	test if the value for key "name" is "Fred"	<<cs_{name=null}>>	test if the value for key "name" is null (undefined)	<<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}>>	test whether the value for template variable "\$m" is true.
<<cs_{name='Fred'}>>	test if the value for key "name" is "Fred"										
<<cs_{name=null}>>	test if the value for key "name" is null (undefined)										
<<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}>>	test whether the value for template variable "\$m" is true.										

API Changes

The following API changes should be noted
None.

Bug Fixes / Technical Changes

#	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	<p>HTML-Like Text Markup</p> <p>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 <code><bgcolor="#rrggbb"/></code> as the beginning of the data for the field.</p> <p>For example, given a template field inside a table:</p> <pre><<myName>></pre> <p>If the data contains for key myName contains:</p> <pre><bgcolor="#ff0000"/>James</pre> <p>The field will be populated with the text "James" and the table cell colour will be set to red (#ff0000).</p> <p>The <code><bgcolor></code> tag must be the first item in the data. There doesn't need to be any textual data to match, so you could have the data and the colour in separate fields. As an example the template might look like this:</p> <pre><<myName>><<cellColour>></pre> <p>And the data could contain have:</p> <pre>myName => James cellColour =><bgcolor="#00ff00"/></pre> <p>and the end result would be a green table cell containing the text James.</p>

API Changes

The following API changes should be noted

None.

Bug Fixes / Technical Changes

#	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.

Bug Fixes / Technical Changes

#	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: <ul style="list-style-type: none">- 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	<p>Plain Text Markup</p> <p>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.</p> <p>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:</p> <pre>docmosis.analyzer.field.plainText.prefix=<< docmosis.analyzer.field.plainText.suffix=>></pre> <p>Example1 in the download bundle shows plain text markup in use. It is the same as Example2 except Example1 uses plain text markup and Example2 uses merge fields.</p> <p>Please see the latest <i>Docmosis Template Guide</i> in the Support section of the Docmosis site for more information.</p>
2	<p>Image Scaling Options</p> <p>The template can now indicate three modes of operation when placing images:</p> <ol style="list-style-type: none">1. <i>stretch</i> - images are stretched to fit the template placeholder2. <i>fit</i> - images are scaled to fit the template placeholder but maintaining the original aspect ratio

#	Change
	<p>3. <i>default</i> - images will be scaled according to the chosen default behaviour which can be overridden on a per-render basis.</p> <p>The use of "bm_XXX" to identify an image is now deprecated and replaced by:</p> <ol style="list-style-type: none"> 1. <code>img_XXX</code> - insert the image <code>XXX</code> using the default setting (stretch is the pre-defined default). The stretch/fit behaviour can be changed at the system level using the property: <code>docmosis.analyzer.image.scaling.default=fit stretch</code> <p>The behaviour can also be overridden when calling the <code>DocumentProcessor.render(RenderRequest)</code> method.</p> <ol style="list-style-type: none"> 2. <code>imgstretch_XXX</code> - insert the image <code>XXX</code> stretching the image in x and y directions to fit the template placeholder entirely. 3. <code>imgfit_XXX</code> - insert the image <code>XXX</code> scaling the image to fit the template placeholder, but preserving the aspect ratio of the image. <p>Please see the latest <i>Docmosis Template Guide</i> in the Support section of the Docmosis site for more information.</p>
3	<p>New PDF and Word Controls</p> <p>Various new features can be specified (see API changes below) for PDF or Word output including</p> <ol style="list-style-type: none"> 1. Password Protect 2. Archive Mode and default view for PDF 3. PDF Watermarks <p>Please see the <i>Docmosis Java API</i> or the <i>Docmosis Web Services Guide</i> in the Support section of the Docmosis site for more information.</p>
4	<p>XML and JSON Data Support</p> <p>The engine can now work directly with XML and JSON format data (via the <code>DataProviderBuilder</code> class).</p> <p>Please see the <i>Docmosis Java API</i> in the Support section of the Docmosis site for more information.</p>
5	<p>HTML-like Text Markup</p> <p>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.</p> <p>For example, your data can contain: This is <code>bold</code></p> <p>Which will be rendered as</p>

#	Change
	<p>This is bold</p> <p>This is disabled by default and is controlled by the property: <code>docmosis.populator.field.markup.process=true</code></p> <p>It can be overridden programmatically using the new <code>RenderRequest</code> object for the <code>DocumentProcessor</code> API (see API Changes below). See also <code>example1</code> and <code>example2</code> in the download which show it in operation for the <<introduction>> placeholder.</p>
6	<p>Experimental DocX Support</p> <p>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.</p> <p>To use docx support, set the following property in <code>docmosis.properties</code> to indicate where the ODF Converter is installed: <code>docmosis.converter.format.docx.external.path</code></p> <p>eg: <code>docmosis.converter.format.docx.external.path=c:/program files (x86)/odf-converter-integrator/OdfConverter.exe</code></p> <p>You may find it more convenient to install the ODF Converter Integrator (http://katana.ooninja.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.</p>

API Changes

The following API changes should be noted

Class / Interface	Change
<code>DocumentProcessor</code>	<p>New render method: <code>render(RenderRequest request)</code> allowing all and extended features to be set when rendering. It is intended to be the primary method for use in future.</p> <p>The <code>RenderRequest</code> object allows various extra settings including:</p> <ul style="list-style-type: none"> - using multiple Template Stores - overriding default behaviours including <ul style="list-style-type: none"> - image scaling behaviour - error handling behaviour - HTML interpretation of text data
<code>DocumentProcessor</code>	<code>render</code> methods now return a result object which includes the number of pages and the size of the document produced.
<code>ConversionInstruction</code>	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	<p>The method <code>getStore(String)</code> has been removed. A single template store location is expected to be configured using system properties.</p> <p>New methods have been added to allow store instances to be obtained with overriding settings for:</p> <ul style="list-style-type: none"> - 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

Bug Fixes / Technical Changes

#	Change
1	Improved processing and reporting of errors in template tables where rows marked as heading rows are used.
2	Improved handling of <code>TemplateIdentifiers</code> and <code>TemplateContexts</code> to ensure <code>Engine</code> , <code>Cache</code> and <code>DropStoreHelper</code> 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 <code>refLookup</code> 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	<p>New Break Fields</p> <p>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:</p> <p><i>«pageBreak»</i> <i>«columnBreak»</i></p> <p>The second forms are for use within repeating sections and will insert the corresponding break until the last iteration of the section:</p> <p><i>«pageBreakNotLast»</i> <i>«columnBreakNotLast»</i></p> <p>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>.</p>
2	<p>Image Lookup Extended</p> <p>Image lookup has been extended to match the facilities of textual data including nesting (eg my.images.image1) and variables (\$myImage)</p>
3	<p>Corrupt Templates are Detected Earlier</p> <p>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.</p>
4	<p>Full-Justification Support for Multi-Line Data</p> <p>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.</p>

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.
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Bug Fixes / Technical Enhancements

#	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

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.

Bug Fixes / Technical Enhancements

#	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	<p>Template Merging</p> <p>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.</p> <p>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:</p> <p>«ref:header.doc» or «refLookup:headerTemplate»</p> <p>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 “<i>headerTemplate</i>” 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.</p>
2	<p>New Render Methods</p> <p>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.</p>
3	<p>Reduced IO</p> <p>Disk and Network IO has been reduced in the case where the Converters are on the same host as the core engine.</p>
4	<p>Improved Error and Diagnostic Handling</p> <ul style="list-style-type: none">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).b) Handshaking between the Docmosis core and the converters will report versioning issues, status and environmental differences.
5	<p>Improved docmosis.properties</p> <p>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.</p>

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)

Bug Fixes / Technical Enhancements

#	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

Bug Fixes / Technical Enhancements

#	Change
1	<p>OpenOffice 3.2 support</p> <p>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.</p> <p>OpenOffice 3.2 changes a few things under the hood so Docmosis had to upgrade to match.</p>
2	<p>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.</p> <p>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.</p> <p>To use embedded converters, update see the information in the example <i>converterPoolConfig.xml</i> file.</p> <p>The primary new property allowing control over the library loading is:</p> <p><i>docmosis.openoffice.useCustomLoader=true false</i></p> <p>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.</p>
3	<p>The property <i>template.store.location</i> can now be left blank, in which case Docmosis will create a temporary area to work with for the template cache.</p>

[Older] Docmosis v2.1.0 Release Notes

November 2009

New Features

#	Change
1	<p>Hyperlink Insertion</p> <p>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 <code>«link_myWebSpace»</code> 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.</p> <p>For example, given the field above, a data value of "http://www.mywebpace.com/bluk" would be rendered as a hyperlink and display the text "http://www.mywebpace.com/bluk" in the document. If the data value was "mywebpace http://www.mywebpace.com/bluk", the link would be rendered into the document displaying the text "mywebpace".</p> <p>See <i>example1</i> in the download bundle to see it in action.</p>

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 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.

Bug Fixes / Technical Enhancements

#	Change
1	<p>Expressions Enhanced - general improvements</p> <ol style="list-style-type: none">default boolean true test <code>cs_{isFriend()}</code> was previously invalid, but now evaluates isFriend() as a boolean as expected.null tests supported <code>cs_{getAlpha()=null}</code>

	<ul style="list-style-type: none"> 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.addObject(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.