Docmosis Tornado v2.7 Release Notes

Oct 2018

Docmosis core updated from version 4.3.0 to 4.4.0

Tornado Changes

#	Change
1	**Support for Java up to version 11** Note: Java 11 will give Warnings during Tornado Startup such as: `WARNING: An illegal reflective access operation has occurred` These can be ignored for the time being as they won't affect Tornado's execution. A future release of Tornado will resolve these issues when related libraries become Java 11 compliant.
2	**Support for LibreOffice 6**

Web Service API Changes

#	Change
1	**New end point "/status"** The "`/status`" end point goes further than the "`/ping`" service, confirming the engine is ready to render documents.
2	**New render response header "X-Docmosis-Document-Errors-Detected"** HTTP response header "X-Docmosis-Document-Errors-Detected" is set when rendering in Dev mode. This allows the client to determine if the rendered document is known to have errors.

New Core Engine Features

#	Change
1	**Improved Error Handling in Dev Mode** Top level errors now written closer to the location of the error rather than top of document.

#	Change

2	## Improved XML and JSON Sample Data Generation
	
	Generated JSON data is now more compact.
	
	Sample data generation now supports nested names for fields. For example:
	
	`<<a.b.c>>`
	
	Generates the sample data:
	
	`{"a": {"b": {"c": "value1"}}}`

3	## New sentenceCase(), isBlank(), ifBlank(), and squote() Functions
	
	Use `sentenceCase()` to convert text data to sentence case format:
	
	`sentenceCase('this is a sentence.') => This is a sentence.`
	
	Use `isBlank()` or `ifBlank()` to test and act based on blank data values:
	
	`isBlank('') => true`
	
	Use `squote()` to replace double quotes with single quotes in a string literal or data to allow quote-escape:
	
	`squote('This sentence"s quotes.') => This sentence's quotes.`

4	## New Built-In Template Variables `$num` - the current counter into the data. `$num1, $num2...` – provide the absolute index into the repeating sequence starting at zero (i.e. 1,2,3,4,5,6...). `$itemidx1, $itemidx2...` – provide the absolute index into the repeating sequence starting at zero (i.e. 0,1,2,3,4,5...). `$nl` - a new line character. `$nowMS` – the current UTC time in milliseconds since epoch `$nowUTC` - current UTC time as an ISO 8601 string `$quot` - a single-quote character
5	## Improved Numbered List Processing Now handles more complex cases of: - 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 "<<list:continue>>" directive

Bug Fixes / Technical Changes

#	Change
1	Added ability use SSL for remote converters.
2	Improved the way URLs work to include context for items displayed in the console (e.g. ping, status, wadl). This resolves some issues around when deploying Tornado to different Tomcat contexts.
3	Improved template-functions to not raise errors when given null values.
4	Improved rendering of merged documents by renaming styles to remove conflict of styles.
5	Updated further functions to handle null/empty params better
6	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.
7	Added <<list:continue>> directive to allow sub-templates to specify they want to continue numbering from a master template.
8	Improved list processing to track the lists rendered so that stripped lists (e.g. conditional sections) don't break linkages between lists.
9	Updated GetTemplate* services to log the exception trace when a Not Found occurs since it's quite a normal error.
10	Fixed several getX() services that could download a file with a "/" in the content-disposition.
11	Fixed issue in Tornado configuration which expects the template directory to be writable when saving configuration.
12	Updated tornado to be able to be configured with a "log.dir.override" setting to log outside of the configured working dir (helpful in Docker environments).
13	Fixed bug in TemplateContext constructor which wasn't correctly removing duplicate "/" characters.
14	Fixed bug in SimpleJSONTemplateStructureProcessor.finish() which wasn't keeping the adjustment to the indent variable.
15	Fixed issue with SimpleTemplateTable.hashCode() which was not correctly hashing the array.
16	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.
17	Fixed Thread leak in MailSystem. When Transport instances are being cached AND a TransportListener is attached, the JavaMail system spawns a thread per Transport for each Thread a Transport was created in.
18	Fix to writing in-document errors into header and footer (some where hiding).
19	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.
20	Corrected processing of [F-L] type range directives which were doing the wrong thing under some cases.
21	Updated stepping and indexing processes - allows more flexible ranges e.g. [1,2,1,1,2].
22	Improved error messages from template-functions - provide function name in message.

#	Change
23	Fixed issue resulting in corrupt documents when new line characters in data were mixed with html-like (<b>, <u>, etc.) directives.
24	Fix to HTML injection where <<html:xxx>> fields being last element in a paragraph could leave "repairme" message.
25	Improvements have been made to the auto-detection of the LibreOffice/OpenOffice locations for the first-runs of Tornado when no configuration has been created.