

RasterMaster Release Notes

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New features

Document based API

New document based API for MS Office XML and Legacy MS Office Word documents, which retains document information and significantly reduces processing time of subsequent pages.

SnowDoc

`SnowDoc` is a new way of managing and manipulating documents available in RasterMaster 20.0. `SnowDocs` are created by `SnowDocFactory`. Once a `SnowDoc` has been created, it is able to generate pages of output in any export format that RasterMaster supports. Retrieving pages from a `SnowDoc` is *thread-safe*, meaning that it's possible to retrieve an arbitrary number of pages at the same time from a single `SnowDoc` object.

SnowDocFactory

`SnowDocFactory` provides two essential functions for `SnowDoc` creation. Each function accepts any of three possible representations of an input file.

- A `java.io.DataInputStream` created from the input file
- A `java.lang.String` consisting of the system path to the input file
- A `byte[]` containing the byte data of the input file

Methods

- `public static boolean isSnowDocFormat(DataInputStream fileStream)`
 - Determines format of the input file & returns true if that format is supported by `SnowDoc`
 - Will continue to be updated as more formats are adapted to support `SnowDoc`
- `public static SnowDoc createSnowDoc(DataInputStream fileStream)`
 - Creates a `SnowDoc` from the input file & returns it
 - Accepts optional parameters to specify layout resolution & bit depth, as well as the ability to override the file's default page width & height. For example:

- `public static SnowDoc createSnowDoc(DataInputStream fileStream, int resolution, int bitDepth)`
- `public static SnowDoc createSnowDoc(DataInputStream fileStream, int resolution, int bitDepth, int width, int height)`
- These optional parameters are also available for the `String` & `byte[]` versions of `createSnowDoc`
- The default resolution is 300dpi
- The default bit depth is 24
- The optional width and height parameters are in pixels at the specified resolution

SnowException

`SnowException` class extends `java.lang.Exception` and will be thrown from some `SnowDoc` and `SnowDocFactory` functions. There are currently three types of `SnowException`.

- `InvalidLicenseException` is thrown when `SnowDoc` is unable to locate a valid RasterMaster license
- `PageNotFoundException` is thrown when a requested page number doesn't exist in the document
- `UnsupportedFormatException` is thrown by `SnowDocFactory.createSnowDoc()` when the input file is in a format not supported by `SnowDoc`

Other improvements/features

- MS Office XML
 - General
 - Significant performance improvement using new Document based API
 - Support for Area Charts
 - Support for Rounded Rectangle in vector output
 - PowerPoint
 - Support for rotated custom geometry
 - Support for 'homeplate' preset geometry
 - Support for embedded MS Charts
- Legacy MS Office
 - Word
 - Significant performance improvement using new Document based API
 - Excel
 - Support for non-indexed files
- Enhanced Product Licensing
- PDF
 - Enhanced support for adding Meta Data when exporting to PDF
 - Support for indexed separation color space images
 - Support for Header and Footer Annotation

- Support for 8 bit color images
 - Support for degree character
 - Support for line join and line cap
 - Support for Portfolio files
 - Support for 2 bit images
 - Split n-page file into n separate files using `IMGLOW_splitPDF()`
- MSG
 - Support for embedded HTML streams
 - Support for Unicode files

Known Issues

Bug Fixes

- Redactions
 - Fix redaction rectangle placement and accuracy when exporting to PDF
- PDF
 - Fix Type1 Font rendering mode
 - Fix character width for some Courier fonts
 - Fix clip path when exporting to SVG
 - Fix masked images when exporting to SVG
 - Fix for watermark images
 - Fix for missing or misplaced PDF annotations
 - Enhanced dictionary parsing
 - Fixed scaling of non-embedded fonts
 - Fixed XFA detection
 - Fix parsing of unicode fonts
 - Fix handling files with indirect rectangle dictionaries
 - Fix for CMYK progressive jpeg images
 - Fix for Thai character set fonts
 - Fix for ZapfDingBats fonts
 - Fix for transparent images/objects
 - Fix for inline images
 - Fix for encrypted files
 - Fix for SMasks
 - Fix for German Copyright symbol
 - Fix for non-standard PDF headers
 - Fix 8 bit images with 4 components
 - Fix for Spot Color Type 0
 - Fix for greyscale G4 images
 - Fix for RunLengthDecode images
 - Fix for invisible text

- Fix clipping rectangle for annotations
 - Fix parsing of Palette stream
 - Fix shading patterns
 - Fix redaction of PDF annotation-based content
 - Fix for rotated image masks
- MS Office XML
 - General
 - Fix line arrow drawing and direction
 - Fix chart background and series colors
 - More robust XML parsing
 - Fix embedded enhanced meta (EMF) file background color
 - Word
 - Fix highlighted text position
 - Fix for Theme colors
 - Excel
 - Fixes for missing rows and content
- Legacy MS Office
 - Legacy Word (DOC)
 - Fix text color in vector output
 - Fix handling of outlines/border for Office Shapes
 - More precise text placement
 - Fix checkboxes in vector output
 - Fix text for embedded enhanced meta files (EMF)
 - Legacy Excel (XLS)
 - Fix date custom formats
 - Fix support of extended ascii character set
 - Fix exporting embedded images to PDF
 - Fix for non-indexed files with merged cells
 - Legacy PowerPoint (PPT)
 - Support for cropped and rotated embedded images
 - Fixed textbox border display
 - Fixed display of embedded enhanced meta files (EMF)
- MSG
 - Fix for header to display on first page only
- AFP
 - Fix font spacing issue for small font sizes
 - Fix font attributes for Courier
 - Fix image patterns and masks
 - Fix 'DATA1' font to map to Courier
 - Fix for packed bit encoded images

- Fix fill patterns
 - Fix handling of malformed files
 - Fix for masked images
 - Fix display of underscore character
 - Fix color for graphics objects
 - Fix text when extracting to vector
 - Fix 32 bit LZW images
 - ASCII
 - Fix page offset for multi-page files
 - Fix extended ascii and UTF8 files
 - JPG
 - Fix for displaying low-contrast greyscale images
 - TIFF
 - Fix for Tiled TIFF/JPEG images
 - HTML
 - Fix graphics when exporting to PDF
 - Annotations
 - More robust P8 annotation parsing
 - Fix for P8 Sticky-note background color
 - Fix bug with rubber stamp annotation when exported to PDF
 - Fix swapped annotation colors
 - Fix display of ampersand character in text annotations
 - Fix flipping of bubble annotation
 - Fix line text wrapping for Post-it annotations
 - Pattern Search
 - Fix for 'greedy' pattern search results
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New Features

- General
 - Added ability to load SnowboundLicense via Input Stream
- PDF
 - XFA Support for Filename calls

- Excel (XLSX)
 - Improved Custom cell formatting engine
- PowerPoint (PPTX)
 - Group Shapes Support
- DWG
 - Updated to latest version of plugin
 - Add support for Paper Spaces/Custom Views. Additional view is treated as a separate page
- ASCII (TXT)
 - Performance improvement for large ASCII files.

Known Issues

- PDF
 - Certain (rare) PDFs which contain negative font sizes may render incorrectly

Bug Fixes

- General
 - Several cosmetic issues regarding Redaction Tags have been addressed
- PDF
 - Large Image Rotation
 - Text size fixed on certain 180 degree rotated documents
 - Bring Stroked Text Support
 - Improve default with with empty W array
 - Fix incorrect ETens-B5-H char mapping
 - Add in clipping for rotated images
 - Fixes for masked images
 - Handle negative X/Y in CropBox
 - Handle negative X/Y in FontBox
 - Fixed embedded CMYK images
 - Fix for certain rotated 1-bit Smask images
 - Fix for text scaling causing certain overlaps
 - Found and fixed memory leak
 - Fix for missing characters
 - Fix for inconsistent line thickness
 - Fix for several forms of masked images
 - Remove assumption about CID font widths
 - Spacing vs character width fix
 - Improved extracting ligatures
 - Add default width for fonts missing widths
 - Fix pCidToGid context restore
 - Inherit page rotation from parent

- Fix placement of redaction tags on rotated pages
 - Fix IMGLOW_rects_intersect_with_image_on_page fails with rotation
 - Fix various kerning issues
 - Fix issue with font height and redactions
 - Fix issue with XFA detection
 - Don't emit StructTreeRoot to PDF files
 - Fix TJ case [NUMBER] correctly
 - Use Type3 ToUnicode tables if they exist in font.
 - Fix ArrayIndexOutOfBoundsException on certain files
 - Map Circle annot to our Ellipse
 - Clip to bounding box for annotations SnowboundSoftware
 - Fix for MinionPro font
 - Fix for blank pages in output
 - force XFA flattening to embed external fonts
 - apply text scaling param for svg text output
 - Fix opacity for xobjects.
- MS Office XML
 - General
 - Embedded WMF support
 - Improved text box formatting
 - Improved font selection
 - Improved color selection
 - Word (DOCX)
 - Table formatting improvements
 - Text & graphic positioning improvements
 - Excel (XLSX)
 - Don't try to fit text into a zero-width cell
 - Only grow page width if cells have content, not just borders/shading.
- Legacy MS Office
 - Legacy Word (DOC)
 - Fixed Shifted Text Boxes
 - Fixed a case where IMGLOW_get_pages would hang on certain files
 - PowerPoint (PPT)
 - Scale and set opacity for embedded WMF images when converting to SVG.
- ASCII (TXT)
 - Fixed thread safety issue
 - fixed page offset for utf8 files.
 - fixed file handle issue
- AFP
 - Masked images exporting as black to vector PDFs

- Performance improvements
- Fix for certain code pages
- Fix for edge-case records
- Fix for angled rotated images
- DWG
 - Reset file handle prior to reading DWG
- MSG
 - Fixed parsing of un-handled unicode characters
 - Add get/setShowExchange(boolean) method in Snowbnd to toggle the display of MS Exchange header info
- HTML
 - Correctly set page width/height as configured
- RTF
 - Fix for initial line spacing
- LND
 - Added support for searching Line Data files
 - Fix page counting between methods
 - Added LINE_DATA to FormatHash
 - Implemented getPages and getFileType
 - Fixed crash
- PCL
 - get/display correct glyph for truetype composite fonts.
- GIF
 - Ignore pages other than page 1 (aka Animated GIF frames)
- Annotations
 - Read in CREATEDATE and MODIFIEDDATE for Daeja annotations