

# Release Notes for RasterMaster Release 14.12/19.12

December 10, 2018

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## **Important Notes**

JRE 1.6 support ended with RM 14.10/19.10 except for special arrangements. Current and future products are/will be built against JRE 1.7 and higher. Any customers with special requirements should contact Snowbound Customer Support.

### **Product Releases**

Generally Snowbound product releases are quarterly with RasterMaster preceding VirtualViewer by approximately a month. However point releases may be made monthly depending on scheduling and backlog. Schedules are approximate and may change. Please check with support if you have any special concerns.

## **Important Phone Numbers and Links**

For the most current information, please contact Snowbound Sales at

1-617-607-2010

<http://register.snowbound.com/MQL-contactUs-Website-2017.html>

[questions@snowbound.com](mailto:questions@snowbound.com)

<https://mylivechat.com/chatnoscript.aspx?HCCID=17729140> (sales inquiries only)

## **Filing a Support Ticket**

<https://snowboundsupport.force.com/SupportPortal/CommunityLogin?>

## **Release Notes and Product Manuals:**

Go to the following link for the most current documentation:

<http://www.snowbound.com/support/manuals>

# Release Notes for RasterMaster Release 14.12.5/19.12.5

## New Features

- MS Office XML
  - Improved chart engine brings
    - Improved line chart rendering
    - Basic pie chart rendering
    - Stability

## Bug Fixes

- MS Office XML
  - Fixed several crashes/NPEs related to charts
  - Improved font mapping on Linux systems
    - If a document's fonts are not installed on the host system, you may see differences in page count/document rendering on the client.
    - The most common Office fonts are available on [Debian](#) and [Ubuntu](#) in the ttf-mscorefontsinstaller package.
      - apt install ttf-mscorefonts-installer

## Errata

- MS Office XML
  - As part of the chart engine replacement, bar charts have been disabled for this release.

# Release Notes for RasterMaster Release 14.12.4/19.12.4

## New Features

- PDF
  - Added two new error codes which can be returned by IMGLOW\_redact\_page().
    - PDF\_PAGE\_NO\_TEXT - The page being redacted has no fonts or redactable text
    - PDF\_PAGE\_REDACT\_IMAGE\_UNDER\_RECT - A redaction was applied over an image
- MS Office XML
  - Implemented area charts

- PPTX
  - Several new features to improve the overall rendering of PPTX files
    - Implemented custom geometry
      - Implemented luminance color modifications
      - Implemented rounded rects

## Bug Fixes

- PDF
  - Fix occasionally 'greedy' redactions (more text than requested was removed)
  - Fix some pattern drawing logic that would obscure certain content
  - Fix some masked and rotated images
  - Fix some embedded JPEG images
  - Fix shading patterns
  - Fix some missing graphics drawn with Transparency (.NET)
  - Fix conversion to SVG with no crop box
  - Fix conversion to SVG with embedded images
- XLS
  - Fix CORRUPTED\_FILE error on files with missing index records
  - Fix regression with string labels
  -
- PPTX
  - Fix improperly rotated text in headers
  - Fix issues with PPTM files reporting 0 pages
  -
- MSG
  - Improved overall rendering. Headers (To, From, cc, etc.) no longer appear at the top of every rendered page
  - Fixed rendering issue with embedded RTF containing Unicode characters

## Release Notes for RasterMaster Release 14.12.3/19.12.3

### Bug Fixes

- PDF
  - Fix certain documents generated by Microsoft's "Print to PDF" mechanism
  - Fix image stretching/cutoff in certain PDFs

- TIFF
  - Fix certain TIFF G3 file dimensions
  - Fix TIFF\_JPEG extract
  - Fix stripped images with non-matching h/w DPI
- MSG
  - Fix missing Euro symbol
- PNG
  - Fix certain PNG files which would fail to render
- RTF
  - Fix missing elements/style in tables
- AFP
  - Fix for NPE and invalid page counts in certain files

## Release Notes for RasterMaster Release 14.12.2/19.12.2

### Bug Fixes

- General
  - Fix SANN\_merge\_annotations when document is rotated
- PDF
  - Fixed missing copyright symbol in certain PDFs
  - Fixed missing check marks in checkboxes
  - Fixed an issue with character rendering with Type 0 fonts
  - Fixed an issue with PDF->SVG
  - Fixed an intereaction with IMG\_resize\_bitmap\_bicubic which would render the page black
- DOCX
  - Fixed a certain class of files that would hang trying to fit content
- XLSX
  - Fixed several XLSX formatting issues

- Fixed some unintended #REF! text
  - Fixed an AIOOBE w/ hidden columns
- DOC
  - Fixed an issue with document vs. system character encoding where text rendering would be garbled if it failed.
- XLS
  - Fixed extra trailing blank page
- FOB
  - Improved FOB/Filenet image support
- RTF
  - A host of formatting fixes to improve accuracy of rendering
  - Fix to NullPointerException with certain bulletpoints
- AFP
  - Fixed some issues with text suppression

## Known Issues

- PDF
  - Some special characters (Ãÿ, Â°, Â©, etc.) may be not render in a very small subset of documents.

## New Features for RM 14.12/19.12

- Added ability to load SnowboundLicense via Input Stream (14.12)
- 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
  - Added support for Paper Spaces/Custom Views. Additional view is treated as a separate page
- HTML - New HTML renderer (19.12)
- ASCII (TXT) - Performance improvement for large ASCII files.

Known Regression: (should be corrected for the next point release) Please contact support if this is critical to you.

[Converting PDF to PNG: missing contents](#) These two files were created by Arbortext 5. They are unique because the Tf calls are passed negative font sizes."

## Closed/Fixed Issues for RM 14.12/19.12

- 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 to Java
  - 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 on Java
  - 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/issues#12347
  - 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 on Java
      - 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

## New Features for RM 14.11/19.11

- DOCX .NET performance improvement dependent on document type and size
- PPTX file support improvement including group shapes
- Very large ASCII text file conversion hugely sped up - ~20x
- PDF Quick Append capability added - see sample code
- PDF encryption added - see sample code
- Lots of improvements on supporting unusual PDFs
- HTML file formats can now be converted into vector PDF and SVG formats
- Improvements on Daeja format and annotation support
- Improvements in MS Office for unusual documents
- HTML conversion to SVG and embedded text PDF now added - [see sample code](#)
- OCR support for raster PDF - see sample code

## Closed/Fixed Issues for RM 14.11/19.11

- TIFF -> PDF "Blurry Picture"
- Rectangle not aligning in DOCX
- xlsx sheet is not shown completely
- pptx: Content is shifted or missing
- PDF Cutoff right side
- TIFF to PDF Corrupt
- TIFF Saturated Image
- XLSX Decimals rounded up
- PDF Missing Info and Logo Corrupted

- PDF Too Bold output
- PDF Missing Info
- Post-It Ann and SANN\_rotate
- AnnArrowRotate
- Move SwingScrollbar.java to correct location
- Annotation info from file
- SANN\_ARROW 13.7 -> 14.9
- PDF Missing Information
- PDF Blank and Black Pages
- PDF Missing Apostrophes
- PDF Shifted/Backwards/Gibberish Text
- Docx is throwing a npe
- PDF Overlapping Numbers
- PDF Blank Pages RM NET x32
- PDF missing most text data
- DOCX: File hangs
- PDF Text Cut Off/Overlapped
- pdf file generating a NoSuchMethodError
- Checkboxes are not being converted in pdf
- PDF: Bold added after conversion
- Imnet ascii files not rendering correctly.
- html form is missing from converted document
- PDF Colors inverted
- html files report zero page length
- HTML: Post ProtocolException
- Daeja annotation drawn multiple times

## Sample Code

### File changes for HTML improved support

The following JARs and DLLs have been updated.

RasterMaster Java

Removed	Added
itextpdf-5.5.7.jar	cleanup-2.0.0.jar
itext-pdfa-5.5.7.jar	forms-7.0.4.jar

itext-xtra-5.5.7	hyph-7.0.4.jar
xfaworker-5.5.7.jar	io-7.0.4.jar
xmlworker-5.5.7	kernel-7.0.4.jar
	layout-7.0.4.jar
	pdfa-7.0.4.jar
	pdfxfa-1.0.2.jar
	xfa-xmlworker-1.0.2.jar
	html2pdf-1.0.1.jar

RasterMaster NET

Removed	Added
itextsharp.dll	itext.forms.dll
itextsharp.xfaworker.dll	itext.hyph.dll
itextsharp.xmlworker.dll	itext.io.dll
	itext.kernel.dll
	itext.layout.dll
	itext.licensekey.dll
	itext.pdfxfa.dll
	itext.html2pdf.dll
	log4net.dll

## PDF Quick Append capability added - see sample code

### RasterMaster Java

```
int IMGLOW_set_pdf_writer(String outputPath)
int IMGLOW_set_pdf_writer(ByteOutputStream oStream)
int IMGLOW_pdf_append_file(DataInputStream dis)
int IMGLOW_pdf_append_file(String inputPath)
void IMGLOW_close_pdf_writer()
```

### RasterMaster NET

```
int CIMGLOW_set_pdf_writer(String path)
int CIMGLOW_pdf_append_file(String inputPath)
int CIMGLOW_pdf_append_file(array<Byte> inputData)
int CIMGLOW_close_pdf_writer()
```

## PDF encryption added - see sample code

### Allow Flags

```
ENCRYPT_ALLOW_LOWRES_PRINTING = 0x4;
ENCRYPT_ALLOW_MODIFY_CONTENTS = 0x8;
ENCRYPT_ALLOW_COPY = 0x10;
ENCRYPT_ALLOW_MODIFY_ANNOTS = 0x20;
ENCRYPT_ALLOW_FILLIN = 0x100;
ENCRYPT_ALLOW_SCREENREADER = 0x200;
ENCRYPT_ALLOW_ASSEMBLY = 0x400;
ENCRYPT_ALLOW_PRINTING = 0x804;
```

### RasterMaster Java

```
byte[] IMGLOW_encryptPDFFile(byte[] in, byte[] userPW, byte[] ownerPW, int allowFlags, int encryptFlags, int error[])
```

### RasterMaster NET

```
byte[] CIMG_encryptPDFFile(String filename, String userPassword, String ownerPassword, int allowFlags, int encryptFlags)
```

## OCR support for raster PDF - see sample code

### OCR Java API

```
/**
 * Set OCR library location
 *
 * @param path - String full path filename for Tesseract dll
 */
void IMGLOW_ocr_set_dll_path(String path)
```

```
/**
 * Convert raster file to vector pdf buffer.
 *
 * @param fileName - String file to convert
 * @return - byte array containing converted pdf
 * @throws Exception
 */
byte [] IMGLOW_ocr_bitmap(String fileName)
```

```
/**
 * Convert raster buffer to vector pdf buffer.
 *
 * @param inBuffer - byte array containing raster file to convert
 * @return - byte array containing converted pdf.
 * @throws Exception
 */
byte [] IMGLOW_ocr_bitmap(byte [] inBuffer)
```

### OCR .NET API

```
void CIMGLOW_ocr_set_dll_path(String^ dllLocation)
array<Byte>^ CIMGLOW_ocr_bitmap(array<Byte>^ inbuffer)
array<Byte>^ CIMGLOW_ocr_bitmap(String^ filename)
```

# Release Notes for RasterMaster Release 14.10/19.10

December 5, 2017

## New Features

- 1) OCR Beta Supporting VirtualViewer
- 2) Other Special features supporting VirtualViewer
- 3) Continued work on improved XFA and HTML Support
- 4) Many customer issues resolved
- 5) For RasterMaster Java, change to JRE requirements is 1.5 and above. Updating to JRE 1.8 by RM 14.11
- 6) all builds will include
  - sample-documents
  - documentation (previously a combination of folders)
    - all marketing, release notes, manuals, etc

### Rastermaster-java

- sample-code
  - rastermaster-java-samples
- lib (previously a combination of folders and top-level directory)
  - all JARs, DLLs, licenses

### Rastermaster-net

- sample-code
  - rastermaster-net-samples
- bin (previously a combination of folders)
  - all DLLs, licenses
- \*removal of vvCheck.exe and SnowboundDLLLocations.exe

## Closed/Fixed Issues RM 14.10/19.10

- PDF -38 ArrayIndexOutOfBoundsException: -1
- XLSX file posts fatal error on decompress\_bitmap
- -38 PDF-XFA
- XLSX sheet is not displayed

- PDF Gibberish Characters
- docx -100 conversion
- XLSX format is being applied differently from Excel
- TIFF Gray Pages
- PNG: Fails to Load in VV
- Bold Text
- TIFF Crash
- XLS Format Issues
- PDF Missing Signature
- afp file converts to random characters
- afp logo is not converted
- PDF Black Pages
- pdf signature missing after conversion to tif
- PDF to SVG character spacing issues
- html to tiff conversion is clipped
- GPL Ghostscript 9.06 - PDF: Signatures turn to black boxes
- TIFF: Crash on conversion
- DOCX: Post NFE
- pdf logo fails to convert
- PDF Black Images
- PDF Condensed Characters
- PDF with -38 error Wells
- RTF 2 pgs converts to 2874 pgs
- XLS Text hidden/Not Included in boxes
- PDF One Pixel Line at Top
- Docx converts with overlapping
- XLSX Long time converting with -38 error
- colors are off in IMG\_popularity\_color() and IMG\_octree\_color()
- Pages are rotated in the viewer
- TIFF: Resize after rotate turns display white
- Adobe Designer 7.0 PDF posts -62 at get\_pages
- Allow AFp to read in Segments with .tif extensions
- Characters are not rendering well
- AFP: Shaded block chaotically spreads across page
- Some Customer Special Builds