# Change History

| Legend | Explanation |
|--------|-------------|
| ☑ (381) | New Feature |
| ☒ (446) | Bug Fix |
| ⚑ (276) | Enhancement |

## Version 4.6.0.59 as of 28th April 2024

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| ☒ | Fixed issue with Fixed Triggers firing ABOVE the current YPOS on the canvas. This was causing the trigger to be placed on a new page. This recent change was to cater for detail rows that would be overlayed with the footers. The fix involves determining if the previous trigger was NOT floating, and only go to new page if it was a floating trigger prior to the current trigger. |
| ⚑ | Linked to the issue above, there is now an option on the Report Properties/Options window, called "Force a new page if the current output position exceeds this triggers starting position". If left UNTICKED, then the footer triggers that would overwrite details would continue to do so, but if TICKED, then a new page will be forced to show the footer triggers. |

(0 new features, 1 enhancement, 1 bug fixes: Total 381 new features, 276 enhancements, 446 bug fixes)

## Version 4.6.0.58 as of 23rd April 2024

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| ☒ | Fixed issue with fields not output on a new Overflow page, if those objects did not have a condition in them. This fixes the fix that was made in a previous version where the barcodes were not reproduced on the Overflow page. |
| ☒ | Fixed Issue with "Individual Emails" being selected, where an email flowed over more than 1 page, the first page was totally ignored (only when emailing). |
| ☒ | Fixed Issue where some conditions need not be re-evaluated on overflow (like convert_date and others). |

(0 new features, 0 enhancements, 3 bug fixes: Total 381 new features, 275 enhancements, 445 bug fixes)

## Version 4.6.0.57 as of 4th April 2024

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| ☑ | Now allows for more detail rows to be output to the page. If any footer/totals need to be output and the current position on the page is greater than the first printable field in the footer/totals trigger then a new page is thrown. |
| ☒ | Fixed issue with the New Line Spacing method being used with fields that could expand more than 1 row – was resulting in blank rows being inserted after each field that had consumed more than 1 row. |
| ☑ | Changed the processing of fields so that 2 passes are now made – first pass for all the fields that do not expand to multiple rows and the 2nd pass for those that can expand |

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| | to multiple rows.  This presents the information better just before overflow – the old way could have output the fields linked to the last row of the previous page onto the new page. |
| ☒ | **URGENT** bug fix.  If there were any non-email pages in the email blast, it was attaching those pages to the previous email recipient.  Destination EB should not contain any non-email pages, but this was not catered for in the new email blasting logic. |

(0 new features, 2 enhancements, 2 bug fixes: Total 381 new features, 275 enhancements, 442 bug fixes)

## Version 4.6.0.56 as of 27th February 2024

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| | Just a recompile and build of all the build 55 Release candidates after successful testing was done by all concerned. |

(0 new features, 0 enhancements, 0 bug fixes: Total 381 new features, 273 enhancements, 440 bug fixes)

## Version 4.6.0.55 RC7-3 as of 26th February 2024

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| ☒ | Fix issue when emailing and writing document library – was attempting a second duplicate email and crashing when trying to save the document to the document library. |

(0 new features, 0 enhancements, 1 bug fix: Total 381 new features, 273 enhancements, 440 bug fixes)

## Version 4.6.0.55 RC7, RC7-2 as of 23rd February 2024

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| ☒ | Fix issues with showing the correct subject and body in emails, when there were multiple different attachments that were processed. |
| ☒ | Fixed the issue where an empty email was sent after the expected ones, when there were multiple different attachments that were processed. |
| ☒ | Changed writing of the logfiles to use a SystemWideLock instead of a file lock.  The file lock was sometimes never released and was hanging processing on some machines. |

(0 new features, 0 enhancements, 3 bug fixes: Total 381 new features, 273 enhancements, 439 bug fixes)

## Version 4.6.0.55 R6 as of 12th February 2024

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| ☑ | Introduce new line spacing methods for XML output. This is an optional setting that can be enabled in the Report Properties dialog window.
Please refer to the '**Release Notes: 4.6.0.55 RC6 – 12 February 2024.pdf**' document on the NuVuSoftware website for examples and comparisons of this new feature. |

(1 new feature, 0 enhancements, 0 bug fixes: Total 381 new features, 273 enhancements, 436 bug fixes)

## Version 4.6.0.55 R5 as of 8th February 2024

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| ☒ | Fix issues when trying to access fields in a trigger that reference fields in another trigger – was always returning blank. |

(0 new features, 0 enhancements, 1 bug fix: Total 380 new features, 273 enhancements, 435 bug fixes)

### Version 4.6.0.55 R4 as of 30ᵗʰ January 2024

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| ⚑ | The checking for #amt fields in the firing of triggers was only implemented when triggers were output during overflow – this has now been expanded to check this during normal trigger firing processing (ie: when checking if the trigger is about to fire). |

(0 new features, 1 enhancement, 0 bug fixes: Total 380 new features, 273 enhancements, 434 bug fixes)

### Version 4.6.0.55 R3 as of 25ᵗʰ January 2024

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| ⚑ | Total rework of the way the document library gets processed – before it was doing it per iteration, now it does it right at the end of all processing of the report. |
| ⚑ | If an -errfile has been passed to dbQuery.exe and there is any internal exception error raised, then a summary bug report will be written to that supplied filename. |
| ⚑ | New feature that allows you to define an EmailOptions mapped file that will override the default settings in the registry – so that one template can output to a totally different email web server with different credentials. |
| ⚑ | If there are no pages to output, then output a PDF that explains this so that the user understands what has happened. |
| ☒ | Checking further that doclibinfo needs to be output so that no unnecessary processing of the document library needs to be done. |
| ☒ | Fix the line spacing issue that was introduced with build 55 release 1. |
| ☒ | In some very rare cases (and not with XML data-sources), the email blast feature was not correct when a field in a trigger referenced data in a row BEFORE the start of that trigger. This has been corrected. |
| ☒ | In other rare cases, the email blast referenced the incorrect email address when sending out the emails. This bug was introduced in the first build 55 of 21ˢᵗ December 2023. |

(0 new features, 4 enhancements , 4 bug fixes: Total 380 new features, 272 enhancements, 434 bug fixes)

### Version 4.6.0.55 as of 21ˢᵗ December 2023

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| ☒ | During overflow processing, the barcoding, paging fields, and x/y were not being re-processed. |
| ☒ | Fix issue on the field properties screen – was annoyingly replacing the XML tag with the advised field name – this only happens now when necessary. |

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| ☒ | Extensive changes made to fix the page numbers and sub-page numbers when the number of iterations was greater than 1. |
| 🏳 | Major rework (new engine completely) for the email blasting – now caters for multiple combinations of Collation/Blast address and individual emails within that. |
| 🏳 | New feature where you can advise an AND 2$^{nd}$ condition to a trigger, being the #amt fields. For example AND #amt10 > 1 – so during overflow it will process this trigger. Can advise the following operators: eq,=,ne,<>,gt,<,ge,<=,lt,<,le,<= |
| 🏳 | Created an automated test suite of templates that can be run against existing templates to ensure any changes do not break any of the previous logic. |
| | Remove the option to email non-pdf format blasts – this has been removed since 2020 – so just removed the prompt to output to PDF format – it now only outputs PDF format. |
| | General code clean-up and optimization. |

(0 new features, 3 enhancements ,3 bug fixes: Total 380 new features, 269 enhancements, 430 bug fixes)

## Version 4.6.0.54 as of 8$^{th}$ November 2023

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| 🏳 | If the rbd_preview tool is running SILENT, then set the priority of the process to BELOW_NORMAL_PRIORITY_CLASS – so that less resources are used by the process. |
| 🏳 | If an exception error occurs when running the rbd_preview tool SILENT, then create a bug report (in the local temp folder of the user running it) and write the exception error together with reference to the generated bug report into the rbd_preview.log file. |
| ☒ | Fix premature overflow issues, when a trigger only has downfields [D] in it. |
| ☒ | Fix issue where the image if downloaded from a URL where the URL did not end in the extension of the image type (.png,.bmp,.gif,.jpg) – was causing a cURL error and not returning the image.  The download file now defaults to .png but changes after examining the image for the correct type. |
| 🏳 | Allow the PDF: parameter from the rbd_prepare tool to have replaceable %yyyy, %yy, %mm, %dd (Year long or short, month and day) for the current date, And %hh, %nn, %ss for the current time (%hh being hours, %nn being minutes, %ss being seconds) |
| 🏳 | Re-introduce the ability to load an RTF (rich text format) with text replacement and images – this was disabled since build 44 |

(0 new features, 4 enhancements, 2 bug fixes: Total 380 new features, 266 enhancements, 427 bug fixes)

## Version 4.6.0.53 as of 13$^{th}$ October 2023

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| ☒ | Fixed issue (suppress exception and write errors) with http image not found or invalid URL. |

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| ⚑ | Added log message before the cURL command that retrieves an image from the internet. Also add error message if the image fails to download. |

(0 new features, 1 enhancement, 1 bug fix: Total 380 new features, 262 enhancements, 425 bug fixes)

## Version 4.6.0.52 as of 3rd October 2023

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| ☒ | Fixed issues with overflow on a downfield which is set to show all rows (wrapped). |
| ⚑ | Clean up all redundant comments, and replace lines that added 1 to the base integer variables to use the inc() function. |

(0 new features, 1 enhancement, 1 bug fix: Total 380 new features, 261 enhancements, 424 bug fixes)

## Version 4.6.0.51 as of 28th July 2023

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| ⚑ | If the subject in an email contains any quotes (") then escape them. |
| ⚑ | In the Configuration wizard, add a new button that will insert the encrypted password for email. |
| ⚑ | Change rbd_preview to force auto-close for any error if running silent. |
| ⚑ | Check that an email address is advised when doing email processing. |
| ☒ | Fix issue when drawing vertical barcodes. |

(0 new features, 4 enhancements, 1 bug fix: Total 380 new features, 260 enhancements, 423 bug fixes)

## Version 4.6.0.49 as of 15th July 2023

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| ⚑ | Introduce 'DetermineImageFile' procedure that examines the image file downloaded from the Internet to ensure it is of the correct type and renames the file with the correct extension (png, jpg, bmp, gif). |
| ☒ | Prevent program exception error when printing to a printer that has no bins. |
| ☒ | Handle UTF8 encoding more efficiently – if cannot convert to UTF8 then prevent the exception error that was happening. |

(0 new features, 10 enhancement, 2 bug fixes: Total 380 new features, 256 enhancements, 422 bug fixes)

## Version 4.6.0.48 as of 28th June 2023

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| | Base version released to Sterland Production |

## Version 4.6.0.46 as of 11th May 2022

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| ⚑ | Fix issue – "List Index out of bounds" when outputting to <PASSTHROUGH> templates, and also same issue in an email blast. |

(0 new features, 0 enhancements, 1 bug fix: Total 380 new features, 255 enhancements, 420 bug fixes)

## Version 4.6.0.45 as of 15<sup>th</sup> April 2022

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| ☑ | Introduce new functionality to store doclibinfo files to an external website, using cURL<br>This uses new special fieldnames all starting with 'docStoage' as defined here:<br>- docStorageURL = the URL that will be called to store the image<br>- docStorageHeader1Name = 1<sup>st</sup> header name<br>- docStorageHeader1Value = 1<sup>st</sup> value associated with the header name<br>- docStorageHeader[2-5]Name = 2<sup>nd</sup> and subsequent values of header name<br>- docStorageHeader[2-5]Value = 2<sup>nd</sup> and subsequent value of header value<br>- docStorageBody1Name = 1<sup>st</sup> parameter for the body<br>- docStorageBody1Value = 1<sup>st</sup> value associated with the body name<br>- docStorageBody[2-5]Name = 2<sup>nd</sup> and subsequent values of body name<br>- docStorageBody[2-5]Value = 2<sup>nd</sup> and subsequent value of body value<br>This allows for up to 5 Header Names/Values and 5 Body Names/Values. |

(1 new feature, 0 enhancements, 0 bug fixes: Total 380 new features, 255 enhancements, 419 bug fixes)

## Version 4.6.0.44 as of 21<sup>st</sup> March 2022

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| ⚑ | Change the loading of images from external websites to support SSL.<br>Examples of requirements are to load signatures. |

(0 new features, 1 enhancement, 0 bug fixes: Total 379 new features, 255 enhancements, 419 bug fixes)

## Version 4.6.0.43 as of 8<sup>th</sup> January 2022

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| ☒ | Only remove email temporary files if the result of the email was successful. |
| ⚑ | Change logging of Errors to be more consistent. |
| ⚑ | Add new -errfile option to the command-line.  If passed (eg: from the web service), then any errors are also added to the passed filename as well as the normal logfile. |

(0 new features, 2 enhancements, 1 bug fix: Total 379 new features, 254 enhancements, 419 bug fixes)

## Version 4.6.0.42 as of 15<sup>th</sup> October 2021

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| ☒ | Fix issue with missing page on a multi-page document, where the subpage indicator was being reset but the trigger (on the legacy non-xml text) was firing on page 2 for the same attachment name. |
| ⚑ | Add a warning message to the Report Options window, if the user ticks the 'Embed True Type fonts' – as this option bloats the size of the PDF by a significant margin and should only be done if using non-standard fonts that may not exist on the recipient of the email. |
| ☒ | Fix issue with textboxes that had empty blank lines being ignored. |

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| ⚑ | Always get a unique pdf filename if previewing is going directly to Adobe or associated pdf viewer. This will guarantee that the pdf viewer will show the resulting pdf file in a new tab each time. |

(0 new features, 2 enhancements, 2 bug fixes: Total 379 new features, 252 enhancements, 418 bug fixes)

## Version 4.6.0.41 as of 20<sup>th</sup> September 2021

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| ⚑ | Added functionality to the 'EmailIndividual' special field in that it will look at the contents of the mapped field – and if it contains 'false' or 'no' (case-insensitive) then it will not apply the individual email option, otherwise it will behave as before (always outputting the emails individually). |
| ☒ | Fix issue with 'EmailIndividual' functionality where blank pages were being output during an email blast. |
| ☒ | Fix issue with emailing multiple attachments – the length of the resulting set of filenames was restricted to 999 – increased this to 999999. |

(0 new features, 1 enhancement, 2 bug fixes: Total 379 new features, 251 enhancements, 416 bug fixes)

## Version 4.6.0.40 as of 30<sup>th</sup> July 2021

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| ☒ | Fixed the issue introduced by build 4.6.0.39 which broke legacy raw text reporting in some cases. |

(0 new features, 0 enhancements, 1 bug fix: Total 379 new features, 250 enhancements, 414 bug fixes)

## Version 4.6.0.39 as of 15<sup>th</sup> July 2021

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| ☒ | Fixed the issue where Page x of y and Subpage x of y showed the wrong values. |

(0 new features, 0 enhancements, 1 bug fix: Total 379 new features, 250 enhancements, 413 bug fixes)

## Version 4.6.0.38 as of 16<sup>th</sup> June 2021

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| ☒ | Fixed the issue where attachments were not being attached during an email blast. |
| ☒ | Fix vertical barcode drawing so that the barcode readers could interpret small barcodes. |
| ☒ | Fix PassThrough printing. |
| ⚑ | Changed URL encoding as per Windows standards. |
| ⚑ | Added functionality to accept a "ReplyTo" address when emailing. If a blank address is passed, then the "From" address is used (as it was in previous versions). |
| ⚑ | Improve the speed (by a factor of 20 or more) when loading and saving letter designs. |

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| ☒ | Fix issues where a string containing \n or <br> was forced to uppercase/propercase – now handles this properly. |
| ☒ | Handles outputting of multi-line text during overflow processing.  Also removes the processing of conditions during overflow processing which fixes issues when trying to convert dates that appear in the overflow processing. |

(0 new features, 3 enhancements, 4 bug fixes: Total 379 new features, 250 enhancements, 412 bug fixes)

## Version 4.6.0.37 as of 15<sup>th</sup> March 2021

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| ☒ | Fixed the issue where images that were loaded at runtime had the same signature but different filenames.  This was causing issues with displaying the correct image (mainly to do with product images or the like). |

(0 new features, 0 enhancements, 1 bug fix: Total 379 new features, 247 enhancements, 407 bug fixes)

## Version 4.6.0.36 as of 3<sup>rd</sup> March 2021

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| ☒ | Fixed the bug where email attachments were not being processed correctly.  Also renamed the attachmentfile so any ',' or ';' was replaced with '-' so that the processing of the emails would occur without error. |

(0 new features, 0 enhancements, 1 bug fix: Total 379 new features, 247 enhancements, 406 bug fixes)

## Version 4.6.0.35 as of 18<sup>th</sup> February 2021

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| ⚑ | Change the nuvu_mapi and nuvu_mapi64 to now launch separate processes for each user.  This fixes an issue in a terminal server environment which expects each user to have a set of executables in memory for the user. |
| ⚑ | Changed the processing of 'e:' (email) and 'eb' (email blast) to look at and separate email attachments based on the 'emailattachment' field. This can now produce one email with multiple attachments based on the value of that field. |
| ⚑ | Enhanced the fetching of images from http/https – to handle different URL's with the same ending filename. |

(0 new features, 3 enhancements, 0 bug fixes: Total 379 new features, 247 enhancements, 405 bug fixes)

## Version 4.6.0.34 as of 22<sup>nd</sup> January 2021

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| ☒ | Clear all field values when trigger has just fired.  Fixes issues where text boxes were referencing fields of a previous trigger. |
| ⚑ | A zipped file can now be passed to the previewer tool. If the extension is .zip or .gz, then the file will be unzipped and processed as normal.  The original zip file will be automatically removed during processing. This only supports the GNU gzip protocols. |

(0 new features, 1 enhancement, 1 bug fix: Total 379 new features, 244 enhancements, 405 bug fixes)

## Version 4.6.0.33 as of 21<sup>st</sup> December 2020

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| ☒ | Further issues fixed when processing overflow fields. |

(0 new features, 0 enhancements, 1 bug fix: Total 379 new features, 243 enhancements, 404 bug fixes)

## Version 4.6.0.32 as of 4th December 2020

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| ☒ | Fixed issues when processing overflow fields – was sometimes hanging up the processing. |

(0 new features, 0 enhancements, 1 bug fix: Total 379 new features, 244 enhancements, 403 bug fixes)

## Version 4.6.0.31 as of 22nd November 2020

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| ☒ | Fixed the designer so if screen resolution is changed to anything other than 100% then it will scale correctly. |
| ☒ | Fix issues when stitching PDF's together, when the PDF's to be stitched had settings that prevented extracting pages. |
| ⚐ | Change settings so that high DPI (screen resolution above 100%) does not affect the designer or preview. |

(0 new features, 1 enhancement, 2 bug fixes: Total 379 new features, 244 enhancements, 402 bug fixes)

## Version 4.6.0.30 as of 20th November 2020

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| ☑ | New feature, enabling images to be downloaded from http and https sites with the 'loadgraphic' function.  These images are automatically removed after processing the report. |
| ☒ | Changed barcodes to output by drawing lines instead of rectangles.  This fixes some scanners not being able to read the barcode. |
| ☒ | Added back the 'Help' menu item(s) which were removed before. |
| ☒ | Fixed issues with images not being drawn properly with KeepAspectRatio enabled. |

(1 new feature, 0 enhancements, 3 bug fixes: Total 379 new features, 243 enhancements, 400 bug fixes)

## Version 4.6.0.29 as of 28th September 2020

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| ⚐ | Added ability to exclude advised trigger numbers from being included in the overflow processing.  There is a new field on the Trigger dialog box that allows you to type in a comma-separated list of trigger numbers to exclude on any one trigger.  The trigger numbers are now shown on the main designer screen to make this easier to identify the triggers you want to exclude – and the list of excluded triggers is automatically maintained if you delete or adjust the position of a trigger. |
| ☒ | Fix issues with selecting the correct printer bin when the numiterations was set to anything other than 1. |

(0 new features, 1 enhancement, 1 bug fix: Total 378 new features, 243 enhancements, 397 bug fixes)

## Version 4.6.0.27 as of 11th August 2020

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| ☒ | Fixed issues with the new Delphi Rio 10.3 compiler in the way it handled Unicode.  It was causing crashes with 'no mapping for the Unicode character' messages on some reports. |
| ⚑ | Double-clicking a line in the sample xml will automatically highlight the xml element on that line, so that a remapping using the F8 key is very simply done. |
| ☒ | Handle cases where a string contains a trailing \n (newline) and it did not throw an extra line. |
| ☒ | Fixed an issue with Delphi Rio 10.3 compile making the NuVuConfigurationWizard screen too small. |

(0 new features, 1 enhancement, 3 bug fixes: Total 378 new features, 242 enhancements, 396 bug fixes)

## Version 4.6.0.25 as of 25th July 2020

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| ⚑ | Recompiled and rebuild for Delphi Rio 10.3 (latest).  Changes to the PollServer and PollService to accommodate the changes in the compiler versions. |
| ⚑ | Changes to the NuVu_MAPI (and NuVu_MAPI64) – to rather process files from the users temp folder than a unified/defined poll folder.  This avoided issues when multiple clients where connecting to a shared folder.  Changes were also made to the rbd_preview.exe to feed MAPI email configuration files to the current users temp folder. |
| ☒ | Performance issues when running large blasts with text-boxes was resolved. |

(0 new features, 2 enhancements, 1 bug fix: Total 378 new features, 241 enhancements, 393 bug fixes)

## Version 4.6.0.24 as of 7th March 2020

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| ☒ | Issues with emailing via the new MAPI method – the attached PDF were being removed before the MAPI client could attach them. |

(0 new features, 0 enhancements, 1 bug fix: Total 378 new features, 239 enhancements, 392 bug fixes)

## Version 4.6.0.23 as of 29th February 2020

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| ⚑ | Change the way that MAPI was being called.  It is now an external poll engine that will process email configuration files using a single MAPI login for the session.  The Poll engine is automatically started if not already running. |
| ⚑ | After collaboration with the external PDF engine people, the barcode logic is now sorted out and performance much better than before. |
| ⚑ | Allow the designer to map and empty xml value (for example: <name/>).  Internally it will still map to <name> and empty values at run-time will simply be ignored. |

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| ☒ | Issues with the snap-to-grid on the designer canvas solved.  The issue was timing with windows messages conflicting with each other.  Now also a click on an already selected object when more than one object is selected, will de-select that object. |
| ☒ | Issues with the resizing of images on the designer canvas solved. |

(0 new features, 3 enhancements, 2 bug fixes: Total 378 new features, 239 enhancements, 391 bug fixes)

## Version 4.6.0.22 as of 8<sup>th</sup> December 2019

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| ☒ | Fix issue with emailing to the 'TO' address when the 'emailindividual' special field had been advised – the 'TO' email address was blank. |
| | Recompiled all units due to changes to external PDF components for the new build 809 of that engine which fixes issues with the StitchPDF logic. |

(0 new features, 0 enhancements, 1 bug fix: Total 378 new features, 236 enhancements, 389 bug fixes)

## Version 4.6.0.21 as of 14<sup>th</sup> November 2019

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| ☒ | Fix issues with barcode printing on certain printers – increase the resolution of the drawn barcodes. |
| | NuVu Reports has been tested with Microsoft Server 2016 and 2019 and is compliant. |

(0 new features, 0 enhancements, 1 bug fix: Total 378 new features, 236 enhancements, 388 bug fixes)

## Version 4.6.0.20 as of 9<sup>th</sup> November 2019

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| ⚑ | Added error catching code to the 'StitchPDF' utility. |
| ⚑ | Change convert_date function so when interpreting short year (yy) it will use the Windows year offset to determine the century properly. |
| ☒ | Prevent the NuVu Poll Server from running twice.  (ie: only single instance). |
| ☒ | Ensure that the letter designer has filenames with .rlm and .rbd respectively. |
| | Recompiled all units due to changes to external components (mainly PDF). |

(0 new features, 2 enhancements, 2 bug fixes: Total 378 new features, 236 enhancements, 387 bug fixes)

## Version 4.6.0.19 as of 2<sup>nd</sup> August 2019

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| ⚑ | Added new 'Snap to Grid' option – both as a global option and a per design option. This allows easier aligning of objects on the canvas. |
| ⚑ | Add new option to the Reporting Options dialog window – 'Hide Buttons' that invokes a new window that enables the user to hide specific buttons on the preview screen (like open, save, email, fax, blast, Excel, Csv) – and any combination of those. |

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| ☒ | Remove .rbi and .tmp files produced during a blast.  (ie: clean up unmanaged files) |
| ☒ | Rework: Fix issue when outputting downfields that are set to wrap – sometimes the lines of text overlapped each other at the bottom of the page. |

(0 new features, 2 enhancements, 2 bug fixes: Total 378 new features, 234 enhancements, 385 bug fixes)

## Version 4.6.0.18 as of 31st October 2018

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| ⚑ | New special fieldname 'collate' that will collate emails based on the contents of the field.  Allows the design to link disparate emails together as one. |
| ☒ | Fix issue when outputting downfields that are set to wrap – sometimes the lines of text overlapped each other at the bottom of the page. |
| ☒ | Fix the barcode drawing due to an issue with the PDF engine which resulted in barcodes not being able to be scanned with all scanners.  New procedure that handles this now. |
| ☒ | Change all references from the invalid KEY_WOW64_64KEY registry to the correct KEY_WOW64_32KEY. |
| ⚑ | Now caters for UTF-8 (Unicode) characters when outputting to the page. |
| ☒ | Fix issue with email blasting – incorrect address allocated in some examples. |

(0 new features, 2 enhancements, 4 bug fixes: Total 378 new features, 232 enhancements, 383 bug fixes)

## Version 4.6.0.17 as of 18th February 2018

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| ⚑ | New option that allows 64 bit versions of Outlook (MAPI) to be used.  Also this no longer requires the registration of the redemption dll – this is done dynamically.  There is a new tick-box on the email options that can be ticked if the user is running Office 64 bit. |
| ⚑ | New enhancement to the NuVu MergeField Designer – the columns of the browse can be resized, and those settings are remembered for the user the next time. |
| ☒ | The PDF printing was problematic when underlining text if the magnification of the screen was set to anything other than 100%. |
| ⚑ | Expand the designer font name selection combo, and change it to be sorted, and show the name of the font in normal font style (Arial) and the preview of what it would look like to the right side of the combo.  This applies also to the multi-object selection. |
| ⚑ | Now allows the vertical and horizontal alignment of most objects. |
| ⚑ | Added tick-box option to the designer options to allow the preview of a report to use Adobe (or associated PDF viewer) instead of the NuVu previewer. |

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| ⚑ | Show additional information in the 'about' screen – including the version of the PDF engine being used. |
| ⚑ | Show the font name with and without the actual font rendered – easier to pick up the names of some fonts when they render characters – example Wingdings. |
| ⚑ | When loading a template into the designer and the image file(s) cannot be found in the advised location, auto-create them. |
| ☑ | New feature – an overloaded version of the LoadGraphic function.  The original only had 2 parameters, being the object name (image place-holder) and the filename.  New optional version has 3 additional parameters – horizontal alignment (left,middle,right), vertical alignment (top,middle,bottom) and stretch (true or false).  Previously without these extra parameters, an image would auto-stretch to the image place-holder and sometimes beyond the boundaries of the placeholder.  Now you can control exactly the position and stretching. |
| ☒ | Fix PDF alignment issues with objects (especially centered objects). |
| ☒ | Fix issues with the email subject and body – always outputting the advised body of the email before any email body that is advised within the template at run-time. |
| ☒ | Fix issue with emails where there is a blast, but only for one email – the attachment was not being extracted from the underlying report. |

(1 new feature, 8 enhancements, 4 bug fixes: Total 378 new features, 230 enhancements, 379 bug fixes)

## Version 4.6.0.16 as of 23rd May 2017

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| ⚑ | New option on the Previewer that enables/disables auto-opening of the created CSV file by the associated viewer (normally Excel). |
| ☒ | The PDF printing was problematic in two areas.  The top/left margins did not take into account the positioning of the objects and added 5mm to the top margin, and a few mm to the left margin.  The second issue was if the user had set screen magnification to anything other than 100% - it caused the printing to be distorted. |

(0 new features, 1 enhancement, 1 bug fix: Total 377 new features, 222 enhancements, 375 bug fixes)

## Version 4.6.0.15 as of 4th April 2017

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| ⚑ | Enhanced the reporting engine by now being able to set ypos (position down the page) at runtime, plus a new function 'bfoverflowypos' that allows you to control the overflow control – very useful when doing multi-column output (for example: gummed labels). |
| ☒ | The Delphi gettemppath function was sometimes returning a blank string which caused a range check error.  Changed the internal NuVu function that wraps this function to then look at the TEMP environmental setting for the folder, and if that fails then defaults to C:\temp. |
| ☒ | Other minor bug changes as found during routine maintenance. |

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| ☒ | Fix the blasting (of emails) so that the subject and body shows that they are blank emails. |
| ☒ | Fix issues with the CPU function that was crashing the NuVu services – replaced with a new function that works with services and interactive processes. |
| ☒ | Clean up left-over log files from the rbd_find utility (within the Poll Service/Server) after processing entries. |

(0 new features, 1 enhancement, 5 bug fixes: Total 377 new features, 221 enhancements, 374 bug fixes)

## Version 4.6.0.14 as of 16th February 2016

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| ⚑ | If a BlastInfo field is advised which contains less than 3 characters, set the field to blank (ie: falls into the blank email/print queue). |
| ⚑ | Fix issues (not with nuvu, rather with badly formed xml) – double-spaced xml and xml that had a start node different to the line of the end node. |
| ⚑ | When processing XML, reformat the XML to handle line-feeds inside the XML (not normally required, but handles badly formed XML). |
| ⚑ | Allow an Email Body file (*.txt, *.html or any file) to be saved as a default for use in future emails. |
| ⚑ | Allow other major image types in the report designer.  Now offer bmp, jpg, png and gif formats. |
| ☒ | Fix issues regarding the quality of the included images (especially logo's with small font address information etc) – results were unreadable. |
| ⚑ | Replaced logic that used to replace \n with cr\lf – to handle only doing this is the field was set to wrap – fixed issues with outputting filename that contained \n in them. |
| ☒ | Fix issue with images inside textboxes, the position was not being recognised. |
| ☒ | Range check error when a right-aligned field was empty. |
| ☒ | Fix issue when 'automatic close' the preview was set, and printing was chosen – did not close the preview window after printing. |

(0 new features, 6 enhancements, 4 bug fixes: Total 377 new features, 220 enhancements, 369 bug fixes)

## Version 4.6.0.13 as of 24th September 2016

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| ☒ | Fix issue with right and centre aligned textboxes that always produced a left-justified textbox. |
| ☒ | Fix a very elusive bug in producing signatures on MAPI emails. |
| ⚑ | Re-introduce saving of rbd_find.def changes from with the designer – with messages |

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| | asking for overwrite. |
| ⚐ | Remove double-quotes around settings in the rbx file (poll engine). |
| ☒ | Fix elusive bug that caused end of paragraph's in text boxes not to be applied the bold and other attributes. |
| ☒ | Fix issue with MAPI emailing where the received attachments had the full pathname of the file instead of just the filename. |

(0 new features, 2 enhancements, 4 bug fixes: Total 377 new features, 214 enhancements, 365 bug fixes)

## Version 4.6.0.12 as of 15th May 2016

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| ☒ | Fix issue with loading theme graphics – original graphic was loaded irrespective of the setting of <LogoPath>. |
| ⚐ | When loading graphic objects in the designer, if the image does not exist then automatically create the image from the original rbd file and save it into the same folder as the folder containing the template design.  In this case a message is output indicating the image has been created and the template will have to be saved to store the new setting. |
| ⚐ | Automatically attach the email signature (MAPI Only) to an email when sending out (if signature has been defined for outgoing messages). |

(0 new features, 2 enhancements, 1 bug fix: Total 377 new features, 209 enhancements, 356 bug fixes)

## Version 4.6.0.11 as of 4th May 2016

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| ☒ | Remove invalid paths from the list of previously opened files in the Report Designer, Letter Designer and Merge Field Designer. |
| ☒ | Fix issue when blasting emails, where multiple pages to the same recipient did not have the same attachment name or attachment files. |
| ☑ | Introduce "Theming" – allowing logo's/images to be positioned based on xml information within the raw xml file, and changing of attributes on all triggers, like Border Color, Fill Color, Text Color, Text Font. |
| ☒ | Fix issues when emailing a document containing a RTF from the preview window. |

(1 new feature, 0 enhancements, 3 bug fixes: Total 377 new features, 207 enhancements, 355 bug fixes)

## Version 4.6.0.10 as of 3rd March 2016

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| ☒ | Fix the MAPI "viewing of client before emails" option of the email blast. |
| ☒ | Fix 'FormatTheString' to cater for numerics ending in 'CR' to show as negative |

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| ☒ | Fix issue with export to excel (and csv) – if a field was marked as 'hidden' the contents was not being transferred to Excel. |
| ☒ | Fix Email Blasting – 2 issues.<br>1. The generated PDF file could have been deleted before the new external email process could process it.<br>2. The internal generation of Page Information was not clearing various stored fields, which could cause issues with multiple different page formats in a single NuVu rbd file. |
| ☒ | Fix issue with NuVuServer.exe which was now running .rbi files silently – only do this if it is launched from the Task Scheduler at boot time. |
| ⚑ | Disable/Untick the 'Install Services as Scheduled Tasks' option if the operating system is before Vista/Server 2008.  Scheduled tasks are not fully supported on these deprecated operating systems. |
| ☑ | Introduced new service (NuVuServiceMonitor.exe) which will install itself automatically during installation.  This service sends 'Are you alive' messages to any installed services/task schedules every 2 minutes.  If the relevant services/task schedules do not reply to the message, then an email is sent to notify the failure (the email address is advised on the 'Email' page of the NuVu Config Wizard), and the service/task is shut down and a restart is attempted. |
| ☑ | Major rework on the servers (Fax,FTP and Poll) in that there is now an option to run the services as windows scheduled tasks instead of services.  Windows 2008 R2 and Windows 2012 Servers were causing the services to fail at random times.  This can be resolved by ticking this option in the NuVuConfigWizard 'Login' screen, which will remove the services and create windows scheduled tasks for the servers (so they run silently on machine boot). |
| ⚑ | Replaced the external zint.dll (and VC++ dependency dll's) with code which is compiled directly into the rbd_preview.exe engine.  This now draws the QR Barcodes natively and avoids issues with VC++ redistributables being the wrong version or not installed on the server. |
| ⚑ | Major enhancement to the viewlog utility – allows you to show line numbers (optionally), and also to save a wildcard template to be used by any files opened that match the template. |
| ⚑ | Changed the logic that used to reset the sub-page information if the 'DocLibInfo' field was advised.  Now the engine will first check if the assigned value of the DocLibInfo is blank on all pages, and only if not blank on any page will reset the sub-page counters. |
| ⚑ | Totally reworked the SMTP email functionality within the rbd_preview.exe rendering engine.  Previously rbd_preview.exe would stall and wait for emails to be processed, which added to CPU and memory consumption (and GDI memory) which could also cause the machine to become instable.  Now a new process (NuVu_SMTP_Mail.exe) is called in it's own thread which releases the rbd_preview.exe process and allows it to exit from memory much sooner. |
| ⚑ | Added Semaphore locks to the log purging mechanism which normally happens around midnight – during this process all other writing to the log-files is suspended until this process completes. |

(1 new feature, 6 enhancements, 2 bug fixes: Total 376 new features, 207 enhancements, 352 bug fixes)

## Version 4.6.0.9 as of 1ˢᵗ March 2015

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| ☒ | Fix the hang-up issue with the poll server/service – which resulted in lots of rbd_preview processes hanging around in memory and never completing. |
| ☒ | Fix a major memory-leak with the rbd_preview.exe process when run silently – was not releasing any of the created objects. |
| ☒ | Text-boxes in floating triggers were being placed incorrectly on the form. |
| ☒ | A bug in the SMTP client delivery of emails with the –i <replytoemailaddress> caused an extra Date: field to be added to the email header – and some SMTP servers were rejecting emails.  Now replaced with the –replyto <replytoemailaddress>. |
| ⚐ | Allow the rbd_preview.exe to be OEM'ed to match the corporate identity of the client. |
| ⚐ | Provide new function 'DrawRect' – which will draw a line or rectangle at a specific position on the canvas. |
| ☒ | Fix QrCode barcodes – were not repeating on down fields. |
| ⚐ | Resurrect the NuVu Letter Writing capability |
| ⚐ | Provide a new drop-down on the Designer toolbar – allows the user to select any object (field/downfield) on the current canvas by name.  The object is automatically scrolled into view and selected, and the properties window opened. |
| ⚐ | Show the object name next to the [F] or [D] field objects – to make it easier to identify them on the canvas. |
| ⚐ | Provide a new command-line setting for the rbd_preview.exe (-hidebuttons) which allows you to hide multiple buttons on the toolbar and menu's.  Buttons to hide are: btnopen, btnsave, btnprint, btnemail, btnblast, btnfax, btnsnapshot, btnexport (excel), btnexportcsv, btnexporttext, btnabobe, btnfind, btnproperties, btnHelp<br>Dividers can be hidden too (div1 to div8) |
| ⚐ | Cater for changes in the SMTP client (nvblatnv) – it was interpreting % in filenames as a Unicode character. |
| ⚐ | Introduce an option to fax via email.  Contact us for information on how to configure this. |
| ☒ | Letter-Writer welcome screen did not show the recent files used. |
| ⚐ | Increase the log history for faxing to 28 days. |
| ⚐ | Internal changes to the licencing model. |
| ⚐ | Ensure the names of the DocLibInfo and Attachments are legal Windows filenames – this avoids a crash during blasting that was sometimes occurring. |

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| ⊡ | Optional DialPrefixFor8DigitNumbers setting in nuvufax.ini – will prepend the advised dialling code onto the supplied fax number if the fax number is exactly 8 characters long. |
| ⊡ | Optional MinimumFaxNumberLength setting in nuvufax.ini – will ensure that all fax numbers are at least this length. |
| ⊡ | Remove spaces found in the fax number. |

(0 new features, 13 enhancements, 5 bug fixes : Total 374 new features, 200 enhancements, 349 bug fixes)

## Version 4.6.0.8 as of 19th June 2014

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| ⊡ | Various additional logging and exception processing to catch exceptions during processing reports. |
| ☒ | Fix issue with right-justified URL's – the hover area was incorrect. |
| ☒ | Fixed a few small memory leaks (rbd_preview.exe and other executables). |
| ⊡ | Changed the email blasting logic to collate emails destined for one person but interspersed with emails to others.  This results in only a single email to an individual, no matter where in the raw data that recipient is found. |
| ☒ | Fixed issue with line drawing – was not drawing thin lines |
| ☒ | Fixed issue when <default> printer was advised, was not printing to the default printer |
| ☒ | Fixed use on page numbering which sometimes occurs if you have included the 'doclibinfo' field in the template |
| ⊡ | Include the Microsoft VC90 runtime redistributable DLL's in the install – in case the VC90 runtime is not already installed |
| ☒ | Fix issue where attachments are not included when doing a manual email. |
| ☒ | Prevent zint.dll from being created all over the place. |
| ☒ | Issue with some font-sizes on downfields that wrap – was causing a new page at the wrong time. |
| ☒ | Fix issue with non-standard page sizes (custom) – the output was stretching to A4 size. |

(0 new features, 3 enhancements, 9 bug fixes: Total 374 new features, 186 enhancements, 342 bug fixes)

## Version 4.6.0.7 as of 10th December 2013

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| ☒ | Fixed an issue in rbd_preview that did not retain the value of a field if the field was |

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| | marked as 'hidden'. |
| ☑ | Reworked the whole rbd_preview tool – so that the engine side is separate from the actual previewing of the report.  This saves on GDI (graphics) memory at run-time, especially when called hundreds of times from a service.  The GDI memory would become exhausted if there were many rbd_preview processes in memory and hang up the rbd_preview processes. |
| ⏏ | Allow the NuVuServer/NuVuService executables to also process the receiving of .bmp or .jpg images as well as .rbi files. |
| ⏏ | Cater for newline characters in XML, in addition to Carriage Return/Newline characters. |

(1 new feature, 2 enhancements, 2 bug fixes: Total 374 new features, 183 enhancements, 334 bug fixes)

## Version 4.6.0.6 as of 16<sup>th</sup> October 2013

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| ☒ | Fixed F1 help on designer and preview from designer to show the correct help file according to context. |
| ☑ | New toolbar option allowing you to drop a Rich Textbox onto the canvas (up to 10 of them per trigger).   The mechanism works pretty much the same as a normal textbox, except that you can associate a created RTF file (created with Microsoft Word for example) with the design.  All formatting of the RTF file is retained – and the RTF can contain Text (formatted and justified), tables and images.  The RTF can also contain field placeholders (for example: @[MyField]) which are replaced at run-time with the actual contents of the associated field names.  A different RTF filename can be loaded into the Rich Textbox at runtime, by using the conditional LoadRTF function. |
| ☑ | Ability to add a QrCode barcode to the designer canvas.  A new attribute called 'barcodeqrcode' is provided for this.  A QrCode barcode can display up to 4096 alphanumeric characters in a single square barcode depending on the size selected for the font of the barcode. |
| ☑ | Ability to include a HTML formatted body with an email destined for a MAPI email (eg: Outlook) |

(3 new features, 0 enhancements, 1 bug fix: Total 373 new features, 181 enhancements, 331 bug fixes)

## Version 4.6.0.5 as of 24<sup>th</sup> September 2013

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| ☒ | Fixed issue with blasting (email and fax) crashing the previewer under certain conditions. |

(0 new features, 0 enhancements, 1 bug fixes : Total 370 new features, 181 enhancements, 330 bug fixes)

## Version 4.6.0.5 as of 28<sup>th</sup> August 2013

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| ☒ | Fixed an issue when the rbd_preview.exe was called with 'Copies' > 1 – only a single copy was being printed. |
| ⏏ | Changed the reporting engine to handle the XML '&apos' and '&deg' placeholders. |

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| ☒ | Fix issue with 'Page N of M' logic within XML documents – sometimes was reporting (for example) Page 4 or 3. |
| ☒ | Fix issue when processing overflow on XML – any images loaded at runtime would not load on the 1st overflow page. |

(0 new features, 1 enhancement, 3 bug fixes: Total 370 new features, 181 enhancements, 329 bug fixes)

## Version 4.6.0.5 as of 7th August 2013

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| ☒ | Fixed an issue selecting printer bins on a per page basis. |
| ☒ | Fixed an issue where overflow was being invoked when there was actually no more downfields to process in the report – resulting in a blank page at the end of the report. |
| ☒ | Fix serious issue with the version number updated to any design template as of the 20th July 2013 version – the version number was updated blank, which resulted in any saved design from the 20th July to this version to not be able to be opened. |

(0 new features, 0 enhancements, 2 bug fixes: Total 370 new features, 180 enhancements, 326 bug fixes)

## Version 4.6.0.5 as of 20th July 2013

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| ☒ | Fixed an issue with #amt variables not being re-evaluated during overflow processing. |
| ☒ | Fix issue where a manual attachment was attached on the mail screen, this was not then attached to any emails when an email blast was performed. |
| ⚑ | Re-Implement URLtext and URLcommand for PDF – so that a blank URLtext can be advised still with a hotspot available (for example on an image). |
| ⚑ | New command-line option for the E: (email option) of the rbd_preview – now allows for the destined email to be output in CSV format, by advising a ',CSV' option instead of the original ',PDF' option. |
| ⚑ | New command-line option for the E: (email option) of the rbd_preview – now allows for the destined email to be output in TXT format (raw report format), by advising a ',TXT' option instead of the original ',PDF' option. |

(0 new features, 3 enhancements, 2 bug fixes: Total 370 new features, 180 enhancements, 323 bug fixes)

## Version 4.6.0.5 as of 23rd June 2013

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| ☒ | Fixed an issue where barcodes were not being reproduced on overflow. |
| ☒ | Setting a 'Custom' page size was being ignored when rendering the PDF document. |

(0 new features, 0 enhancements, 2 bug fixes: Total 370 new features, 177 enhancements, 321 bug fixes)

## Version 4.6.0.5 as of 10th June 2013

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| ☒ | Fixed the Report Previewer regarding clicking inside the page then clicking simultaneous PageUp/PageDown buttons – would stop paging after just a few pages. |

(0 new features, 0 enhancements, 1 bug fix: Total 370 new features, 177 enhancements, 319 bug fixes)

## Version 4.6.0.5 as of 30th May 2013

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| ☒ | Fix the 'Attachments' field – was not functioning and not allowing attachments to be attached per 'blast' email. |
| ☒ | Fix issue with the DocLibInfo field – was not functioning after the previous upgrade. |
| ☒ | Fix issue with processing of #amt fields – was not totalling correctly. |

(0 new features, 0 enhancements, 3 bug fixes: Total 370 new features, 177 enhancements, 318 bug fixes)

## Version 4.6.0.5 as of 2nd April 2013

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| ⏏ | Do not pad empty rows to length 1000 like non-blank fields – this reduces the memory requirements by a large factor.  When mapping fields on a blank line the line will be automatically padded to 1000 characters. |
| ☒ | Printing range of pages always printed from page 100 when selecting any page range above 100. |
| ⏏ | Add a new button (View with Adobe Acrobat) to the report previewer.  This will attempt to open the associated PDF viewer installed on the clients computer to display the current document. |
| ⏏ | Add new function (SetDestination(…)) that allows the destination of the report to be changed at runtime.  Any valid destination can be advised, as per the documentation in the NuVu Technical Reference manual. |
| ⏏ | Clicking on the page panel (the panel that shows the range of pages in a document) now prompts for a page number to position the display to. |
| ☒ | Dotted rectangles were being shown as solid lines. |
| ☒ | Selecting multiple objects and choosing a background color changed the background color to black irrespective of the color chosen. |
| ☒ | Scrolling down and paging down too quickly caused the preview tool to crash. |
| ☒ | Fix issue with exporting to Excel with this version – was not instantiating Excel properly. |
| ⏏ | Enhance the overflow processing for word-wrapped fields where the word-wrapping would result in overflow. |

(0 new features, 5 enhancements, 5 bug fixes: Total 370 new features, 177 enhancements, 315 bug fixes)

## Version 4.6.0.4 as of 16th November 2012

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| ☑ | Replaced the NuVu Previewer engine with a PDF engine – to overcome issues with some clients crashing after attempting a print using the NuVu Previewer (with the XE2 compiler). |
| ☒ | Fix issue where a non-hidden object is outside of 2mm of the page width or height – was crashing the PDF engine (or hanging it up and causing high CPU). |
| ⚑ | Enhanced the charting capability for multiple charts. |
| ⚑ | Additional enhancement to cater for optional <setfont> attributes being passed in from the underlying XML.  These attributes are used to set the current field to a different color or font style. |
| ⚑ | Changed the logic when using the 'LoadGraphic' to load an image at runtime – now ensures that the height of the image remains the same, and adjusts the width accordingly. |
| ☒ | Fix issue with PDF files getting created without a filename (ie: .pdf) – could result in blasts picking up the incorrect version of the file during emailing. |
| ☒ | Copy/Paste was setting the field and downfield Row to zero if the copied object was set to row = 1. |
| ☒ | Copy/Paste was setting the field and downfield column to zero if the copied object was set to col = 1. |
| ☒ | Pasting an object will first see if the fieldname of that object has already been assigned to another object.  If so, then a unique object ID will be assigned. |
| ⚑ | Expand the 'SetFont' function to allow advice of 'underline'. |
| ☒ | Fix overflow issue when items were set to 'wrap' across multiple lines. |

(1 new feature, 3 enhancements, 6 bug fixes: Total 370 new features, 172 enhancements, 310 bug fixes)

## Version 4.6.0.2 as of 10ᵗʰ May 2012

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| ☑ | Full Unicode support (using new 32/64 bit compiler in 32 bit mode).  Incorporates new PDF engine and other Unicode components. |
| ☒ | Fix issue with emailing a range of pages – formatting was missing etc. |
| ☒ | Fix further issue with MAPI emailing – now resolves filename to an absolute path. |
| ⚑ | Force 'attachmentname' to output to the temporary folder for the user, and ensure the file extension is derived from the original file (ie: an extenstion does not have to be advised). |
| ⚑ | Replace tab (chr 9) characters in XML input. |

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| ⚑ | Add new reporting property 'Embed TrueType fonts' – defaults to unticked.  If ticked, then the fonts used in the report will be embedded into the PDF document.  This provides for maximum portability so that PDF's can be read by any client, but does increase the size of the PDF.  Only tick if using non-standard fonts. |
| ⚑ | Allow Copy/Paste of objects from one instance of the designer to another. |

(1 new feature, 4 enhancements, 2 bug fixes: Total 369 new features, 168 enhancements, 304 bug fixes)

## Version 4.6.0.1 as of 20th December 2011

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| ☑ | Provide new 'rbd_console.exe' executable that simply creates PDF's from the supplied .rbi file (same as the 'PDF:' command line function available inside rbd_preview.  The application is a console application and can therefore be run under 'wine' on Linux.  Please note because on incompatibility issues on Linux, the charting side of NuVu Reports has been 'compiled out' of this executable and is not available.  Also note that the only available destination is PDF:<filename> |
| ☒ | Fix minor issues with charting: Min Value, Max Value, Green Start, Green End, Red Start and Red End changed to not attempt to refresh the chart when the values are changed (only on exit of the field) as this was causing too much CPU and crashed some machines. |
| ☒ | Fixed minor overflow issue – there was an additional check for overflow BEFORE the downfield logic was processed, which sometimes resulted in an extra blank page at the end of the document. |
| ⚑ | Insert new logic into the Poll Service and Poll Server processes to check for any defined windows printers – if none are found then an email is sent to the administrator and the server/service is closed down. |
| ☒ | Fix Barcode 3of9 – the "A" character was being interpreted as a "9". |
| ☒ | Fix issue when email blasting using MAPI – file was in use. |

(1 new features, 1 enhancement, 4 bug fixes: Total 368 new features, 164 enhancements, 302 bug fixes)

## Version 4.5.0.33 as of 13th August 2011

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| ⚑ | Provide new 'vlookup' function that operates in a similar manner to the Excel function of the same name – but in the case of NuVu allows information to be extracted from external TAB-DELIMITED files.  Adds functionality to the NuVu product in that information that was not originally contained within the raw text or XML can be obtained at run time from an external file. |
| ⚑ | Enhance the convert_date function to now allow conversion of days back to a date, as well as sub-functions to convert date to start of month, end of month, start of year or end of year.  Can now also do things like add 90 days to an existing date and show it as a new date.  The first parameter (the date field) can now also be advised as 'today' (without the quotes) and this will use the current date instead of a derived date field. |
| ☒ | Fix minor issues with charting: coloreachpoint and series colors were sometimes not being saved depending on the chart type. |

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| ☒ | Fix issue on report designer where multiple conditions with "OR" were advised – but the designer reported "Trigger not found" |
| ⚑ | New 'knob gauge' chart component – and other enhancements to the charting including:<br><br>1. Uses the .Net framework to render the charts using GDI+ canvas - MUCH better look to them.  (defaults back to normal canvas if this cannot be achieved).<br>2. Dials can be circular or oval.<br>3. Pies can be transparent.<br>4. Largest slice of pie stands out.<br>5. 3D Pie's have a nice bevel on the edges, and have a lighting over them.<br>6. Bars can now have the marks inside the bar.<br>7. New 'Knob Gauge' - like an oven gauge.<br>8. All gauges can now have any starting and ending value and increment (before it was always a percentage of one column to another).<br>9. Labels on gauges can be rotated or horizontal.<br>10. Bars/Pies/Line charts can now select column totals (as many as you wish) instead of row-totals.<br>11. Marks have a nice rounded edge to them.<br>12. Marks can be moved around with the mouse at run-time.<br>13. Fonts on dials can now be customised (color, style, size, fontname etc).<br>14. Red/Green areas on chart can be optionally hidden. |
| ☒ | Fixed issue with marks on chart when showing as a percentage, and the total was zero, was crashing with 'incompatible format'. |
| ⚑ | Provide new 'percentage' formats for charts when using the 'value' field – to show a value with a percentage sign for manually calculated percentage columns.  Also provide Currency formats. |

(0 new features, 4 enhancements, 3 bug fixes: Total 367 new features, 163 enhancements, 298 bug fixes)

## Version 4.5.0.32 as of 20th March 2011

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| ⚑ | Provide new option to render Faxes as PDF documents before passing them over the Microsoft Fax.  This eliminates the OLE error sometimes found on versions of Microsoft Fax on servers from 2003 release 2.  If this option is ticked on the fax page of the NuVu Configuration Wizard, also please ensure that the 'nuvufax.ini' file used by the users is also updated to include the 'UsingPdfFax=True' item. |
| ⚑ | Provide new special fieldname 'EmailFromAddr' that can be used to set the 'Sender' email address to any address when using SMTP email. |
| ⚑ | Improve speed of loading xml or legacy report into the report designer (by a factor of 20) |
| ⚑ | Added new special fieldname 'Attachments' that will automatically attach the filename(s) advised into the caption of this field when the resulting pdf or rbi is emailed. |
| ☒ | Patched to fix the row repositioning due to the change for the speed of loading xml/legacy report into the report designer. |
| ⚑ | If unable to write a message to any logfile, log the message in the Windows Application Event Log. |

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| ▣ | Replace WinExec commands with WinExec32NoWait commands – 64 bit windows does not recognise the WinExec command according to Microsoft documentation. |

(0 new features, 6 enhancements, 1 bug fix: Total 367 new features, 159 enhancements, 295 bug fixes)

## Version 4.5.0.31 as of 3rd January 2011

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|---|---|
| ▣ | Introduce new reserved fieldname 'EmailIndividual' that if mapped to a report, will result in emails being sent whenever the 'sub-page' counter is reset back to 1. This is useful when doing an email blast of lets say 10 invoices to the same customer email address, but each invoice needs to be sent as a separate email. |
| ☒ | Fix issue which shows the incorrect number of blast mails/faxes etc. |

(0 new features, 1 enhancement, 0 bug fixes: Total 367 new features, 153 enhancements, 294 bug fixes)

## Version 4.5.0.30 as of 17th October 2010

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| ▣ | The NuVu Fax Server/Service has been enhanced to cater for automatic emailing of any serious (fatal) error to the NuVu administrator. |
| ▣ | Introduce CPU checking before processing a NuVu Fax job. |
| ▣ | The NuVu Fax Monitor now shows a new pane (Submitted Faxes) that reflects the items that have been submitted to the Microsoft Fax Engine but are still in process of being faxed. |
| ▣ | Provide automatic purging of the NuVu Fax logfile (7 days rotation) as per the other NuVu Reporting tools. This is only effective if the NuVu Configuration has been set to not email or print the fax log. If the configuration is set to print or email the log, then the logfile is purged only at the advised days/time. |
| ☒ | Fix issue with Printer Bins being allocated to the wrong pages when the Printer Bin is conditionally set within the NuVu template. |
| ▣ | The NuVu Fax Monitor now shows 2 new columns (Microsoft Fax JobID and Processed By) in all grid panes. |
| ▣ | The NuVu Faxing now has extra logging so that the originating .rbi file is referenced inside the fax log for easy reconciliation of fax entries. |
| ☒ | Fix issue with the NuVu Fax Engine, that was allowing the critical "Check Queue" section to be re-entered while it was still processing faxes. |
| ▣ | Change all fonts inside all NuVu components from 'MS Sans Serif' to 'Tahoma'. This fixes the issue in Windows 7 where the 'MS Sans Serif' on some installations has a minimum size of 10 (instead of the expected 8) and causes windows to wrap. |

(0 new features, 7 enhancements, 2 bug fixes: Total 367 new features, 152 enhancements, 293 bug fixes)

## Version 4.5.0.29 as of 22nd August 2010

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| ☑ | Now provide the ability to have multiple-series charts (up to 4 series in each chart). |
| ⚑ | Provide a new chart type 'Line' which produces financial line charts. |
| ⚑ | Provide new reserved fieldname 'PdfSecurity' that can contain options to encrypt PDF documents and restrict users from copy/paste, printing, extraction, fill-in fields etc. Refer to the online help or User Reference manual for more information and syntax. |
| ⚑ | Provide new reserved fieldname 'BCC' which will allow you to advise alternate BCC blind copy email addresses per NuVu Template (or even per collated page within an single NuVu Template). |
| ☒ | Fix issue with the 'substr' function – the designer was not allowing this function to be advised. |
| ⚑ | Provide new function 'formatdatetime(format_string)' that will format the current date and time into a string format as provided within the brackets. |
| ⚑ | Introduce checking for locale information (ShortDateFormat etc) into all NuVu executables – this overcomes a Windows 7 64 bit bug that sometimes returns the incorrect locale information. |

(1 new features, 5 enhancements, 1 bug fix: Total 367 new features, 145 enhancements, 291 bug fixes)

## Version 4.5.0.28 as of 17ᵗʰ May 2when 010

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|---|---|
| ⚑ | Remove any reference to the original ASyncPro Fax engine from the NuVu Fax Server/Service engines. This eliminates 'named pipe' errors. |
| ⚑ | Process Faxes in sequence of date/time created (First In First Out). |
| ☒ | Retain the case of the 'AttachmentName' field when used to name the PDF documents. The filename is no longer converted to all lowercase. |

(0 new features, 2 enhancements, 1 bug fix: Total 366 new features, 140 enhancements, 290 bug fixes)

## Version 4.5.0.27 as of 27ᵗʰ April 2010

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|---|---|
| ⚑ | Change the NuVu FTP Server to check if the Poll Server/Service is installed on the server machine. If so, then the FTP Server will NOT automatically send received .rbi files to the rbd_previewer.exe utility. This enables high volume FTP'ed .rbi files to rather be processed by the NuVu Poll Server/Service instead, which has built in CPU throttling and other benefits. |

(0 new features, 1 enhancement, 0 bug fixes: Total 366 new features, 138 enhancements, 289 bug fixes)

## Version 4.5.0.26 as of 24ᵗʰ April 2010

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| ⚑ | Further changes to the 'GetTempFile' function – so that emailed attachments do not have a .tmp inside the filename – as this was causing some emails to be blocked by email servers. |

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| ☒ | Fix issue with first pages designated to print to an alternate printer bin – was always printing to the default printer bin. |
| ⚑ | Change all calls to 'GetUniqueFile' to 'GetTempFile' – which uses the standard Windows API to create unique temporary files during processing. This avoids the possibility of a duplicate filename during batch processing of multiple jobs (eg: via the poll server). |
| ⚑ | Provide mechanism to save the PDF or RBI file to an advised name before attaching to an email.  New special fieldname of 'AttachmentName' is provided for this ability. |

(0 new features, 3 enhancements, 1 bug fix: Total 366 new features, 137 enhancements, 289 bug fixes)

### Version 4.5.0.25 as of 28th January 2010

| | |
|---|---|
| ⚑ | When invoking the Poll Server or report previewer attempt to perform a purge of the logfiles to backup folders – Each logfile is kept for 7 days |
| ⚑ | When outputting the results to excel – if the column is defined as anything other than right-justified then it is now assumed to be a character (text) field and sent to Excel like that.  This avoids Excel sometimes crashing with OLE errors when a text field started with an equal sign (as it was then interpreted as a formula). |

(0 new features, 1 enhancement, 0 bug fixes: Total 366 new features, 134 enhancements, 288 bug fixes)

### Version 4.5.0.24 as of 18th December 2009 (release 5)

| | |
|---|---|
| ☒ | When a report line (raw text) had an opening '{' but no closing '}' and output was directed to PDF, the PDF engine went into an endless loop. |

(0 new features, 0 enhancements, 1 bug fix: Total 366 new features, 132 enhancements, 288 bug fixes)

### Version 4.5.0.24 as of 14th December 2009 (release 4)

| | |
|---|---|
| ☒ | When reports were directed at a printer but the printer name had forward slashes in it, they were being replaced with back-slashes and resulting in nothing being printed because the printer could not be found. |

(0 new features, 0 enhancements, 1 bug fix: Total 366 new features, 132 enhancements, 287 bug fixes)

### Version 4.5.0.24 as of 30th November 2009 (release 3)

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|---|---|
| ☒ | Emails sent on a successfully sent fax were also being copied to the administrator. |

(0 new features, 0 enhancements, 1 bug fix: Total 366 new features, 132 enhancements, 286 bug fixes)

### Version 4.5.0.24 as of 5th November 2009 (release 2)

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| ⚑ | Ensure if a BCC has been advised that all emails include this BCC when emailing. |
| ☒ | Fix issue with processed text boxes – as soon as a textbox contained an empty string, |

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| | then the original mergefield that was stored within it was lost, resulting in blanks in the textbox on all pages after it. |
| ☒ | Fix issue with conditional statements that contained opening or closing brackets within a quoted field. |
| ☒ | Fix issue with PDF's that were saved from the viewer, or emails that were processed via the viewer – column-headings and page breaks were being ignored under certain circumstances. |

(0 new features, 1 enhancement, 3 bug fixes: Total 366 new features, 132 enhancements, 285 bug fixes)

## Version 4.5.0.23 as of 28th July 2009

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| ⚑ | Allow charts to have the labels on the bottom margin shown vertically. |
| ⚑ | Remove Tabs (chr(9)) from xml files before processing. |

(0 new features, 2 enhancements, 0 bug fixes: Total 366 new features, 131 enhancements, 282 bug fixes)

## Version 4.5.0.22 as of 26th July 2009

| | |
|---|---|
| ⚑ | Provide mechanism to specify alternate banding colors for horizontal and vertical chart back walls. |
| ☒ | Fix issues with chart quality. |
| ☒ | Transparent marks were not shown as transparent in certain cases. |

(0 new features, 1 enhancement, 2 bug fixes: Total 366 new features, 129 enhancements, 282 bug fixes)

## Version 4.5.0.21 as of 19th July 2009

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| ⚑ | Add speedometer chart type – charts two accumulated totals as a percentage of each other, reflecting a result which ranges from 0 to 100. |
| ⚑ | Add linear gauge chart type – charts two accumulated totals as a percentage of each other, reflecting a result which ranges from 0 to 100. |

(0 new features, 2 enhancements, 0 bug fixes: Total 366 new features, 129 enhancements, 280 bug fixes)

## Version 4.5.0.19 as of 2nd July 2009

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| ⚑ | Add CPU Usage and CPU delay settings to the NuVu Poll Service and NuVu Poll Server – allowing the user to set the maximum CPU % before the Poll function will wait for the CPU to reduce. Some machines that were processing many multiples of the rbd_preview.exe would crash on occasion due to this high CPU usage. |
| ⚑ | Add CPU Usage checks to the NuVu Report Previewer (rbd_preview.exe), so that CPU is checked before various critical sections of the report previewer, and if CPU usage is above the threshold, then the process will wait until CPU usage has dropped. |

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| ▣ | Add the ability to advise formats for the numeric and percentage points. |
| ☑ | Add new feature to the report previewer – a single report template can now be processed multiple times in a single run.  Creating a field with a name of 'NumIterations' and setting its value to a fixed numeric number (eg: 2), or mapping it to a field on the raw report will then result in the processing of the same template the required number of times.  Reserved fields #curriteration and #numiterations can be used inside conditional statements to output different information depending on the current iteration. |
| ▣ | Fix bug with 'variable logical lines' – this setting was effectively being ignored from Version 4.5 onwards. |
| ▣ | Fix bug with exporting to excel, with blank lines marked not to ignore, was exporting the blank lines (applies to CSV output as well). |
| ▣ | Fix bug with lines that only contained dashes in them, the whole line was output as a blank line. |
| ▣ | Prevent endless loop within the FormatBox routine, if the design had referenced the same fieldname within a text box. |
| ▣ | Fix issue with centered text during PDF output – when the report options had the 'can set field widths' unticked – resulted in the text being left-aligned instead of centered. |
| ▣ | Automatically adjust the start position of downfields, if a fixed field that is set to "grow" grows below the previous downfield start position. |

(1 new feature, 5 enhancements, 4 bug fixes: Total 366 new features, 126 enhancements, 274 bug fixes)

### Version 4.5.0.18 as of 2nd June 2009

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| ▣ | Fix bug with chart background colour – was always coming through without any colour. |
| ▣ | Add the ability to hide/show horizontal and vertical grid lines on the charts. |
| ▣ | Add the ability to show point marks on charts with or without the border (frame). |
| ▣ | Add the ability to advise formats for the numeric and percentage points. |
| ▣ | Fix bug with processing fields and downfields. If they contained "\n" (newline identifier), these were replaced with newlines before being processed within text boxes. |
| ▣ | Improve quality of charts. |

(0 new features, 4 enhancements, 2 bug fixes: Total 365 new features, 121 enhancements, 270 bug fixes)

### Version 4.5.0.17 as of 26th May 2009

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| [x] | Fix bug with the 'redo' function – sometimes crashed the designer. |
| [flag] | Enhance the 'blast' capability, so that the number of faxes, emails and blank blast addresses are shown in a dialog window – and also the blank addresses are now sent to an internal advised email address. |

(0 new features, 1 enhancement, 1 bug fix: Total 365 new features, 117 enhancements, 268 bug fixes)

## Version 4.5.0.16 as of 28th April 2009

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| [x] | Fix minor bug with the internal down row field (currentdownrow) – it was being reset to 1 each time through the downfields loop – so was ineffective. |
| [flag] | Allow a setting to be read from the registry ('PollCurrentUser') by the Poll Server – if True, then the Poll Server will only process items in the print queue or folder that are owned by the current windows user.  This option is also able to be set from the 'Options' menu item on the Poll Server Monitor (available from the system tray). |
| [flag] | New option for charting – 'Transparency' – allows the actual bars on a vertical or horizontal bar chart to have a transparent look to them. |
| [x] | Unticking the 'automatic colours' on the chart properties did not make the colour choosing button available. |
| [flag] | Change the 'email recipient' editor box to a combo-box – and store previously advised entries in the combo each time an email is sent.  Allows the user to quickly select previously used email addresses.  The 'delete' key can be clicked on any item in the drop-down list to remove it from the history. |
| [x] | Fix small issue with email blasting – if the initial documents had blank emails, then the user was not prompted for an email address to send the blank documents to. |
| [x] | Fixed issue with the document management logic (doclibinfo).  From the 2nd generated document onwards, the detail rows were sometimes in the wrong place. |

(0 new features, 3 enhancements, 4 bug fixes: Total 365 new features, 115 enhancements, 267 bug fixes)

## Version 4.5.0.15 as of 28th March 2009

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| [x] | Major bug was introduced with version 4.5.0.13 – because all downfields are now 'pre-processed' to determine how many lines they will occupy, the conditional logic was broken as the settings for each object (hidden, colours etc) was lost.  This version now keeps a copy of all downfield objects in memory to resolve this issue. |

(0 new features, 0 enhancements,1 bug fix: Total 365 new features, 112 enhancements, 263 bug fixes)

## Version 4.5.0.14 as of 25th March 2009

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| [flag] | Change the 'loadgraphic' function to parse the expression advised as the filename. Previous versions expected the 2nd parameter of the loadgraphic to be a quoted filename, or a qualified filename derived from another field.  For example, the following would be correctly evaluated:  loadgraphic(mypicobject,"C:\temp\" + currfield + ".jpg"). |

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| ☒ | Fixed issue with raw reports with spaces in them – was ignoring the blank lines even if the 'ignore blank lines' property was unticked. |

(0 new features, 1 enhancement, 1 bug fix: Total 365 new features, 112 enhancements, 262 bug fixes)

### Version 4.5.0.13 as of 7th March 2009

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| ⚑ | Default all new report definitions to have the 'Can set Field widths' ticked – as this is the preferred method of designing reports to avoid field overwrites. |
| ⚑ | Major new functionality on Fields and Downfields – there is now a property 'Max No. lines' that can be set (0 = unlimited, 1 = default, or any value between 2 and 99 lines). Setting to anything other than 1 will allow the field to 'grow' at run-time – ideal for wrapping text. |
| ☒ | Fixed bug with new printing exception logic – was preventing documents from being printed. |

(0 new features, 2 enhancements,1 bug fix: Total 365 new features, 111 enhancements, 261 bug fixes)

### Version 4.5.0.12 as of 5th February 2009

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| ☒ | Fixed some alignment problems with the new PDF engine. |
| ⚑ | More robust exception handling of MAPI emailing. |
| ⚑ | MAPI Email blasts now handle unresolved email addresses. |
| ⚑ | The resultant Email Blast logfile now contains error messages when sending via MAPI. |
| ☒ | Fix minor issues with vertical text output (and vertical barcodes)l. |

(0 new features, 3 enhancements, 2 bug fixes: Total 365 new features, 109 enhancements, 260 bug fixes)

### Version 4.5.0.11 as of 18th January 2009

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| ☒ | Fix issue with a trigger that is also the start node of a chart – the chart was not drawn. |
| ⚑ | Improve quality of chart when rendered to PDF or the NuVu Previewer |
| ⚑ | Remove 'installviewer.zip' from the install. |
| ⚑ | Include BoxLib.dll and other PDF libraries in the install (PDF helper DLL). |
| ⚑ | Indicate where the next trigger (or starting downfield row) is on the designer canvas. |

(0 new features, 4 enhancements, 1 bug fix: Total 365 new features, 106 enhancements, 258 bug fixes)

## Version 4.5.0.10 as of 26th October 2008

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| ☒ | Fix urgent issue with some text elements not being drawn with the new PDF compression engine. |
| ⚑ | Provide the ability within the Designer and Preview tools to choose between showing HTML Help format (.chm help - the standard for Microsoft Vista) or traditional WinHelp format (.hlp – the standard before Microsoft Vista).  This is implemented via a menu option. |
| ☒ | Fix potential memory leak in the registration utility – reported from clients running the NuVuService for more than 2 weeks without reboot. |

(0 new features, 1 enhancement, 1 bug fix: Total 365 new features, 99 enhancements, 255 bug fixes)

## Version 4.5.0.9 as of 5th October 2008

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| ⚑ | Introduce better text and image compression into the production of PDF reports. |
| ⚑ | Changed rbd_preview to set the default printer if none BEFORE instantiating the main form – to prevent 'there is no default printer' messages. |
| ⚑ | New 'EmailSettings' optional setting within the email configuration file. This setting can be used to advise optional parameters to the external 'nvblatnv.exe' function that delivers emails via SMTP.  This includes requesting return receipts, delivery notifications, signature files etc. |
| ⚑ | Remove '-silent' option on the nuvuserver.exe – so that it can be used to display a nuvu report that is sent from a remote machine. |

(0 new features, 4 enhancements, 0 bug fixes: Total 365 new features, 98 enhancements, 253 bug fixes)

## Version 4.5.0.8 as of 17th August 2008

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| ☒ | Fixed bug in the PDF compression function that caused some PDF's to be unable to be opened. |
| ⚑ | Can now pass a '?' to the printer bin parameter in the rbd_prepare tool – this will output a list of printer bin numbers (and associated bin descriptions) to the logfile – making it easy to determine which bin number to advise in the future. |
| ☒ | Fixed small bug in the printer bin selection – could have caused a list index error, or range check error if a bin was advised that was one greater than the number of available printer bins. |
| ⚑ | When outputting to the document library, show the number of documents, and total number of pages in the logfile. |
| ⚑ | Minor performance improvements. |
| ⚑ | Changed the NuVu Config Wizard to now just attempt a ping to the licence server and issue a warning if it cannot communicate with it – rather than throwing an error. |

(0 new features, 4 enhancements, 2 bug fixes: Total 365 new features, 94 enhancements, 253 bug fixes)

## Version 4.5.0.7 as of 26th July 2008

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| ☒ | Fixed urgent bug with the Fax Server/Service – the 'Submitted' folder was only synchronised with Microsoft Fax when the 'Pending' folder was empty.  Now changed to synchronise the queues after processing all entries in the 'Pending' folder. |
| ☒ | Change the settings on the 'install' function to only use normal compression and a single compression thread, to avoid corruption within the installation program. |
| ☒ | Obsure Floating Point Processor exception discovered – causing issues with printing and other areas – mostly under Citrix – fix has been applied to all executables. |
| ⏱ | Include new compiled versions of rbd_find, rbd_lic and rbd_prepare for Linux. |
| ⏱ | Include new functionality in the email configuration file. The optional 'AttachMain=False' can be inserted that will instruct NuVu NOT to attach the generated NuVu Report into the email. |

(0 new features, 2 enhancements, 3 bug fixes: Total 365 new features, 90 enhancements, 251 bug fixes)

## Version 4.5.0.6 as of 5th July 2008

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| ☒ | Fixed bug with the Fax Monitor – clicking on the 'View Document' button did not view the document. |
| ☒ | Fixed Letter Designer that was freezing the screen when the preview button was clicked, but there were validation errors on the design. |
| ☒ | Fix bug with emailing of faxing success – an email notification was sent when the fax was submitted to Microsoft Fax, and then another one when the fax had been successfully transmitted. |
| ⏱ | Remember the email settings for 'Send as PDF' and 'Show Email Client' between sessions. |
| ⏱ | New (optional) configuration file (nuvufax.ini) that can contain the root folder where the faxes are located. Must be located in the NuVu install folder on the machine that is faxing the documents.  An example of the contents of the file below:<br><br>[Overrides]<br>FaxRoot=\\dev01\nuvu |
| ☒ | Fix issue with graphics linked to downfields – the 'Keep Aspect Ratio' was not been utilized. |
| ⏱ | Change the 'loadgraphic' function to not output any image (even the original image placeholder) if the passed image name could not be loaded, or was invalid. |
| ⏱ | Automatically replace the following XML reserved keywords with their corresponding printable characters: |

| | |
|---|---|
| | &amp; outputs & <br> &quot; outputs " <br> &lt; outputs < <br> &gt; outputs > <br> &tilde; outputs ~ |

(0 new features, 4 enhancements, 4 bug fixes: Total 365 new features, 88 enhancements, 248 bug fixes)

## Version 4.5.0.5 as of 30<sup>th</sup> May 2008

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| | Introduce the BarcodeEAN13 and BarcodeEAN13_long barcodes. |
| | Introduce the MAPI redemption model – thus eliminating the need for separate MAPI and NO-MAPI versions of the NuVu Install.  This also bypasses the Microsoft security mechanism when sending silent emails (in a blast for example). |
| | Increase the 'logical column in the trigger properties to accommodate 999 columns (was 99). |

(0 new features, 3 enhancements, 0 bug fixes: Total 365 new features, 84 enhancements, 244 bug fixes)

## Version 4.5.0.4 as of 26<sup>th</sup> May 2008

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| | Introduce ability to have graphics LINKED to downfields. |
| | Fix documented bugs inside the Delphi 'printers.pas' unit – that are causing 'no default printer' errors in a citrix environment. |

(0 new features, 1 enhancements, 1 bug fix: Total 365 new features, 81 enhancements, 244 bug fixes)

## Version 4.5.0.3 as of 21<sup>st</sup> May 2008

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| | Improve compression of new PDF production (results in much smaller files on disk). |
| | Change initialisation logic inside rbd_preview to detect and set default printer if not set. Also improve exception processing if incorrect bin number passed to printer. |

(0 new features, 2 enhancements, 0 bug fixes: Total 365 new features, 80 enhancements, 243 bug fixes)

## Version 4.5.0.2 as of 27<sup>th</sup> March 2008

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| | Fix issue when clicking the 'Send To Front' or 'Send To Back' toolbuttons on the Designer – was crashing if there were no objects selected.  Also now output an error message if there is not exactly 1 object selected when these functions are attempted. |
| | Fix bug introduced in 4.5.0.1 when outputting PDF – the KeepLabel object was sometimes not initialised and resulted in an Access Violation in remote cases. |
| | Provide destination of 'none' to rbd_preview – increases performance when only processing the document library. |

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| 🏳 | More speed improvements |
| 🏳 | Insert small delay every 500 lines processed within rbd_preview – to lower CPU usage |

(0 new features, 4 enhancements, 2 bug fixes: Total 365 new features, 78 enhancements, 243 bug fixes)

## Version 4.5.0.1 as of 23rd March 2008

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| ☑ | Vastly improved PDF production. All previous limitations when producing PDF output as opposed to native NuVu output have been removed. These features are:<br>➡ Vertical text (up/down) now supported in fields and labels<br>➡ Upside down text now supported in fields and labels<br>➡ Any true-type font can now be used<br>➡ Hyperlinks are now incorporated<br>In addition, there is now a far higher compression of generated PDF images, and the 'Properties' of each produced PDF document are updated with information from the NuVu Design. |
| ☑ | Introduce ability to define charts within triggers (up to 10 charts per trigger). Each chart has many properties that can be set to achieve the desired visual appearance. |
| ❌ | Fix issue with printing to a single report with multiple printer orientations – sometimes the printer orientation did not change as expected. |
| ❌ | Fix issue with the 'pdf:' parameter that had spaces in the pathname – was truncating the filename. |
| 🏳 | Add the barcodeucc128c function into the conditional processing of a field or downfield. Revert the original barcodeucc128b to only produce the CODE B variant of the ucc128 barcode, whereas the barcodeucc128c will attempt to produce a CODE C variant of the ucc128 barcode if the code to be created is all numeric, otherwise it will revert back to the barcodeucc128b variant. |
| 🏳 | Add tickbox alongside the Trigger 'Repeat on each page' property, to now only include this trigger if the trigger has already fired at least once. Default is UNTICKED (for backward compatibility). |
| 🏳 | Enhance report processing if the 'doclibinfo' is being used – to reset the overflow and trigger 'fired' indicators at the start of each new doclib file. |
| ❌ | Fix issue within the report previewer – to now check when doing 'newpage' processing that a trigger has indeed fired before including it on the page. Also reset these 'fired' indicators when processing a new set of 'doclibinfo' pages. |
| ❌ | Fix issue on the Report Designer – straight after pressing save, then closing the form, was still wanting user to save changes. |
| 🏳 | Introduce additional functionality into the optional .rbx configuration file used by the NuVu Poll Engine. Can now advise 'Template=' plus either a fully qualified NuVu Report Definition (.rbd) or else just the rbd name (with the .rbd extension). If this entry is found, and the .rbd file exists, then this template will will used instead of attempting to find the template automatically. |

(2 new features, 4 enhancements, 4 bug fixes: Total 365 new features, 75 enhancements, 241 bug fixes)

**Version 4.3 as of 26th February 2008**

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| ☑ | Increase the allowed number of triggers from 15 to 30 – major development. |
| ⚑ | Change the barcodeucc128b function to now intelligently interrogate the barcode to be produced, if the barcode is ALL numeric, then produce a compressed Code128 Type C barcode instead of the bulkier Type B derivative. |
| ☑ | Add functionality to the NuVu Designer, that allows triggers to be moved before or after other triggers. The order that triggers are positioned within the trigger drop-down list is used during overflow processing, so this new functionality allows for the fine control of in which order the triggers will fire during the overflow processing. |
| ☒ | Fix issue when report is run from command-line and a printer bin is advised – was crashing with 'List Index out of bounds'. |

(2 new features, 1 enhancement, 1 bug fix: Total 363 new features, 71 enhancements, 237 bug fixes)

**Version 4.2 SP12 as of 16th February 2008**

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| ☒ | When an email blast was sent out, if the last trigger to fire did not contain downfields, but did contain any runtime graphics or text boxes, then these were ignored. |
| ⚑ | Added a new toolbar function – allowing the results of the NuVu Report to be exported in RAW text format.  This is the same format of data that was passed into the NuVu Report before it was converted to a graphical report.  This option is useful if the raw data needs to be manipulated within Excel or any other application. |

(0 new features, 1 enhancement, 1 bug fix: Total 361 new features, 70 enhancements, 236 bug fixes)

**Version 4.2 SP11 as of 4th December 2007**

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| ☑ | Introduce Microsoft Fax delivery for the NuVu Fax Service/Server. |
| ⚑ | Provide 'PrintTo' functionality for the NuVu Report Previewer (both normal reports and fax instances). |
| ⚑ | Now attempt to find the required printer to print to first by exact name, then by partial name. |

(1 new feature, 2 enhancements, 0 bug fixes: Total 361 new features, 69 enhancements, 235 bug fixes)

**Version 4.2 SP10 as of 11th October 2007**

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| ☒ | Fix issue with XML that contained a '<' within the data of the XML element – rest of the data after the '<' was being ignored. |
| ☒ | Fix bug introduced in SP7 – if the email configuration file contained:<br><br>Message=<br>[<br>Some message…. |

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| | ]<br><br><span style="color:red">This was ignored by the preview engine, as the 'Message' token had been replaced by the 'EmailBody' toke – and resulted in the standard email message being displayed.</span><br><br><span style="color:red">Changed (for backward compatibility) to process either:</span><br><br>Message=<br>[<br>Some message….<br>]<br><br>Or<br><br>EmailBody=<br>[<br>Some message….<br>] |
| ☒ | Fix bug when exporting a report that has more than 26 columns of data – received 'Range Check Error'. |
| ⚑ | Increase the performance of processing XML-based reports. |
| ⚑ | Add a new property to the 'Designer Properties' window, allowing the user to specify the default font name to use when designing a new NuVu report.  Also changed the logic so that the 'Auto Font Size' is also used a a default for new NuVu Report designs. |
| ⚑ | Change the 'Export to Excel' to format the data cells in the same font name and size as the FIRST downfield. |
| ⚑ | Speed improvements when loading reports into the designer. |
| ⚑ | Suppress the 'missing triggers' message when a report is loaded into the designer – the message still shows when a trigger is selected that cannot be located in the sample document, and the 'missing triggers' message is still output when the report is saved. |
| ⚑ | Insert a small pause between a split spooled report, to overcome a potential windows spooler hang-up on specific printers. |
| ⚑ | Warn the user if the sample report contains more than 2000 lines (when it is about to be loaded into the designer), but give the option to load the remaining lines if required. |
| ☒ | When selecting a report destination of 'P:<default>' (ie: print to the users default printer), if the default printer was the FIRST defined printer, the report was not printed. |

(0 new features, 7 enhancements, 4 bug fixes: Total 360 new features, 67 enhancements, 235 bug fixes)

### Version 4.2  SP9 as of 14th September 2007

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| ☒ | Emailing as a PDF attachment where the first trigger referenced field prior to the |

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| | trigger did not reference those fields correctly. |
| ☒ | The first 'stop' condition was being overwritten by the 2nd 'stop' condition within the designer. |
| ⚐ | Change the 'loadgraphic' function to allow the '$NuVu' placemarker to be inserted at the start of the path for the filename. This will be replaced at run-time by the actual folder where the rbd_preview is running from. |
| ☒ | Underlining of downfields when creating PDF documents was incorrectly calculating the line width. |
| ⚐ | Allow for formatting placeholders inside left-justified text boxes:<br>{b} – Start bold<br>{/b} – End Bold<br>{i} – Start Italic<br>{/i} – End Italic<br>{u} – Start Underline<br>{/u} – End Underline |
| ⚐ | Allow for color changes within a left-justified text box:<br>{c}color{/c} – Where the color MUST be a simple color (one of: black, blue, fushia, gray, green, lime, maroon, navy, olive, purple, aqua, red, silver, teal, yellow, white, moneygreen, skyblue, cream or medgray). |
| ⚐ | Allow for the insertion of a graphic within a left-justified text box:<br>{g}ImageFileName{/g} - will insert the bitmap or jpeg image at the current location on the text box – refer to the online help in the 'TextBox Properties' window for details and examples of how to achieve this. |

(0 new features, 4 enhancements, 3 bug fixes: Total 360 new features, 58 enhancements, 231 bug fixes)

## Version 4.2 SP8 as of 2nd August 2007

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| ☒ | The Email Subject was being left at the 'blank email' subject for all normal mail recipients if there was blank emails in an online email blast. |
| ☒ | Prevent an email blast run from the command line (or full blast) if the design has been set to 'Prevent Emailing'. A log message is created informing of this situation. |
| ☒ | Fix bug in NuVu Poll Server/Service – when polling the Spool folder the template was not being found – bug since 4.2 SP5 but only discovered now. |
| ☒ | Fix bug with Fax subject not retaining the user input subject when performing a fax blast. |
| ⚐ | Allow for setting of Email Type, Email encoding and character set from Email Config screen. |
| ⚐ | Fix Poll Server/Service to quote the parameters passed to rbd_find and rbd_prepare tools – if the pathname contained spaces these utilities failed. |
| ⚐ | Output Version string when logging into NuVu Print Server (Licence Server). |

(0 new features, 3 enhancements, 2 bug fixes: Total 360 new features, 54 enhancements, 228 bug fixes)

## Version 4.2 SP7 as of 8<sup>th</sup> July 2007

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| ☒ | When a new page is "Forced" when a trigger ends, do not set the Overflow indicator. |
| ☒ | Fix bug with Email subject not retaining the user input subject when performing an email blast. |
| ☒ | Fix bug with image resolution on generated PDF documents – the compression library was not being called – resulting in larger PDF documents. |
| ☒ | Fix Poll Server/Service to quote the parameters passed to rbd_find and rbd_prepare tools – if the pathname contained spaces these utilities failed. |

(0 new features, 0 enhancements, 4 bug fixes: Total 360 new features, 51 enhancements, 224 bug fixes)

## Version 4.2  SP6 as of 17<sup>th</sup> March 2007

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| ⚑ | Many fax service enhancements, including much improved recovery from fax transmission errors, auto restart of the fax service if the service hangs, ability to set the fax resolutions to normal or high, write the last reported fax error to the logfile (and display in the new fax monitor), ability to email fax success as well as fax failures, ability to log the progress of each fax (to diagnose timings and errors). |
| ⚑ | Rewrite the Fax Monitor completely – ability to now control settings of the fax service dynamically from the fax monitor, column sorting, show last fax error, improved drag/drop mechanism and other cosmetic changes. |
| ⚑ | Report Designer changes – all properties dialogs (Text, Fields, Downfields, TextBox, Rectangles and Images) now report an accurate millimeter position on the page calculated from the absolute pixel position. |
| ⚑ | Ability to select different printer bins at run-time (using reserved fieldname 'PrinterBin'). |
| ⚑ | New conditional function – substr – allows for the selection of a sub-portion of a string, from a start position, for a length. |
| ☒ | Fix bug with the UrlText/UrlCommand conditional functions that did not create hyperlinks on the preview window under certain circumstances.e designer. Unfortunately this can only be implemented by changing the behavior of the click on the object to select it ONLY (and not allow it to be immediately dragged, except by clicking on the object again and moving it (or pressing the keyboard arrows to move it as before0). |

(0 new features, 5 enhancements, 1 bug fix: Total 360 new features, 51 enhancements, 220 bug fixes)

## Version 4.2  SP5 as of 3<sup>rd</sup> November 2006

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| ⚑ | Add functionality to the NuVu report preparation tool (rbd_prepare.exe) – it now looks for a file 'rbd_prepare.ini' in the same folder as rbd_prepare.exe – if found, it extracts the ServerAddress and ServerPort from it and uses that instead of getting the |

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| | information from the registry. This is very useful in doing a single nuvu install to a share on the network, then pointing the NuVu users to this share – no NuVu install is therefore required on each users PC. |
| ↻ | Add functionality to letter writer – to have 'displayfield' linked to a 'mergefield'. |
| ↻ | Add functionality for printing EAN-128/UCC-128 barcodes – to use this barcode, specify 'barcodeucc128b' in the conditional statement for the applicable field. |
| ☒ | Fix irritating 'jumping' of components when clicking of them inside the designer. Unfortunately this can only be implemented by changing the behavior of the click on the object to select it ONLY (and not allow it to be immediately dragged, except by clicking on the object again and moving it (or pressing the keyboard arrows to move it as before0). |
| ☒ | Clicking inside text boxes within the designer was sometimes not updating the font size on the toolbar. |
| ☒ | Occasional right-clicking of a text-box on the designer caused an access violation. |

(0 new features, 3 enhancements, 3 bug fixes : Total 360 new features, 46 enhancements, 219 bug fixes)

## Version 4.2  SP4 as of 14<sup>th</sup> June 2006

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| ↻ | Changed all logging operations to first check if the file attempting to be written to is read-only. If so the logging function silently exists without logging. This is to fix issues on a read-only application drive that was causing undue delays while waiting to try and write the log record. |
| ↻ | Include proper version numbers and other version information inside all executables – so that the current version of any program can be determined from the Windows Explorer just by hovering the mouse over any NuVu executable. |
| ☒ | Fix "OLE ERROR" message received when exporting directly into Excel in some cases. |
| ☑ | Added the "NuVu Letter Writer" functionality to the install. This allows users to create letter templates which can be used in a mail-merge. |
| ↻ | Changed all functions that write to the registry to first check that the user has rights to write to the registry before attempting to do so. |
| ↻ | Show a more meaningful window when asking the user for the email blast address. |
| ↻ | Do not bring up the 'email blast internal address' dialog window if the report only contains a single non-blank email address. |
| ↻ | Add Multiply and Divide (* and /) operators to the conditional field/downfield processing. |
| ☒ | Fix issues with page collation during blasting in certain circumstances. |

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| ⚑ | Additional checking for the downfields being reached when a trigger ends. If the downfields have not been reached, then automatically advance to the advised Y position on the page. |
| ☒ | Fix issues with the calculated fields logic sometimes crashing the previewer. |
| ☒ | Sort the "Domain" and "User" combo-boxes on the "Services" page of the NuVu Configuration Wizard. |
| ⚑ | Increase the number of allowed objects from 40 to 120 in the free designer tool. This is to facilitate using the free designer to design NuVu MailMerge letters without having to purchase the full report designer product. |
| ☒ | Fix bug when running the rbd_preview.exe for the first time, and the 'PrinterName' registry entry has not yet been set – was trying to obtain the DEFAULT printer but if the first printer ever added to the Windows PC was not a physical printer, this caused the program to crash. |
| ☒ | The 'Conditional Statements' for arithmetic calculations were not allowing an accumulator (#amt1 for example) to be multiplied or divided by another field or constant. |
| ☒ | Fix problems when emailing or blasting multiple recipients, and the optional 'LinesPerPage' parameter was set to a non-zero value – resulted in form-feeds being inserted into the raw report data. |
| ☒ | Fixed problem with TextBoxes not being output if the end of the raw data file was reached before the first down-field. This issue was also fixed when doing a report 'Blast', and the first downfield of the current trigger was not reached after processing the current recipient. |
| ☒ | Fix obscure bug when emailing or blasting, and the raw report contains form-feeds that do not match the physical pages output in the NuVu report – the 2nd and subsequent pages of a recipient in the NuVu report were being corrupted. |
| ☒ | Fix problem with fax that 'takes too long' – was attempting to reprocess it at the same time that the failure email was being sent – resulting in the fax being removed from the failed folder. |
| ☒ | Fix bug in the 'conditional statements' when a calculation involved an accumulator (#amt1 to #amt50) – was setting the internal index to the accumulators incorrectly, resulting in an incorrect calculation. |
| ☒ | Allow the #amt fields used in conditional statements to not have the 'val(field)' around them, as they are by definition numeric values. Therefore a statement 'if #amt1 = 0 then…' will be valid. |
| ☒ | Fix bug with blasting/email blasting when outputting PDF documents – the check to see if the downfield row has been reached should only have been made on the last page of output, not each time the PDF file was being closed. |
| ☒ | Fix problems when emailing or blasting multiple recipients, and the optional 'LinesPerPage' parameter was set to a non-zero value – resulted in form-feeds being inserted into the raw report data. |

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| ☒ | Fixed problem with TextBoxes not being output if the end of the raw data file was reached before the first down-field. This issue was also fixed when doing a report 'Blast', and the first downfield of the current trigger was not reached after processing the current recipient. |
| ⚑ | Ensure that all Registry settings write / read from HKEY_CURRENT_USER first before the default of HKEY_LOCAL_MACHINE. This change was mainly for Citrix users who share the HKEY_LOCAL_MACHINE registry but require individual settings for NuVu. |
| ⚑ | Add a new menu item to the Poll Server popup menu that appears when you right-click the PollServer icon in the task-bar. This new menu item allows the user to toggle the 'Allow Reports to be viewed' option at run-time.  This setting is only effective for the current session (ie: the registry value for the 'Allow Reports to be viewed' is not affected, and will be used next time the Poll Server is started up). |

(1 new features, 10 enhancements, 15 bug fixes: Total 360 new features, 43 enhancements, 216 bug fixes)

## Version 4.2 SP3 as of 17<sup>th</sup> October 2005

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| ☒ | Fix very obscure bug (when calling a Windows API) that crashes the rbd_preview OCCASIONALLY when a mapped field ends with an ampersand. This crash was due to a Unicode conversion issue that only happened if another application (an editor for example) was busy processing at the time rbd_preview was invoked to process a report. |
| ⚑ | Before processing a report with rbd_preview.exe, first copy the .rbi to a 'WIP' folder that will automatically be created directly beneath the folder in which the rbd_preview.exe resides. This file is automatically removed after the successful processing of a report – therefore this folder can be interrogated for FAILED entries, which can then be reprocessed or analysed for the reason of the failure. |

(0 new features, 1 enhancement, 1 bug fix: Total 359 new features, 33 enhancements, 201 bug fixes)

## Version 4.2 SP2 as of 30<sup>th</sup> September 2005

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| ⚑ | Allow the user to choose to bypass the NuVu email dialog completely when interactively emailing from the viewer and the current email type is MAPI. |
| ☒ | The NuVu Report Previewer incorrectly converted a UNC filename passed into it into an invalid filename, resulting in a blank page being shown on the viewer. |
| ☒ | The NuVu Designer was erroneously including a template that was embedded inside another template as normal fields (instead of template fields) – each time the report was loaded and saved, extra field/text objects were being added to the design. |
| ⚑ | Allow the Recipient Name, Senders Name, Page n of m, and Fax subject to be optionally shown on the top of each fax (in the header area). The standard entry  in the HKLM/Software/bpcsoft/beautifier registry  root for the 'FaxHeader'  is now :<br><br>($E) Pg: $P of $N, $D $T  $R $F $S<br><br>This shows the fax entry number $E, current page $P, total pages $N, Date $D, Time $T, Recipient Name (if advised) $R, Senders Name (if advised) $F and Subject (if advised) $S. |

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| | This string can be copied from above and updated into the registry manually if required. |
| ⊡ | Validate the number of each type of component on each trigger does not exceed the maximum allowed. |
| ⊡ | Allow shift-pageup and shift-pagedown to act as 'previous page' and 'next page' triggers inside the NuVu Report viewer. Also change the behavior of the viewer so that the 'zoom in' function is activated by a Control-Click rather than just a left mouse click. |
| ☒ | The new FaxReference field was not being written to the fax entry when the NuVu report previewer was called with the 'Fax:' or 'B:' options |
| ☒ | After double-clicking and editing an entry in the Fax Monitor / Remote Fax Monitor, the mouse cursor was still set to 'drag' – cancel any drag operations in this case |
| ⊡ | If a fax item has been marked to be processed 'soonest', then reflect this in the Fax Monitors, rather than a time of one minute past midnight. |
| ⊡ | Clear the previous contents of the fax reporting canvas before loading a fax image onto it – in an attempt to fix a problem reported occasionally where the fax service sends a fax with the logo and details of a previous fax |
| ☒ | The Fax Monitor (and Remote Fax Monitor) was clearing the associated external document if the user double-clicked to view the document. |
| ⊡ | The Fax Monitor (and Remote Fax Monitor) has been given a face-lift. They now show the various panes (Failed, Pending, Sent and Log Details) above each other, instead of the original "4-quarter" display. This change is made to accommodate three new fields that are shown on the folder views: User who submitted the fax, Fax Reference number and Document Name (if the fax contains an external document). There is also the ability to "minimize" the individual folder views, if required |
| ⊡ | Provision has been made to associate a "Fax Reference" number in a processed NuVu report. This is achieved by mapping a section of the text report to a reserved fieldname called 'FaxReference'. If during the processing of the report, this field is recognized, the contents of the field will be written to each fax output (if appropriate). This Fax Reference number is shown as a separate column on the NuVu Fax monitors |
| ⊡ | Enhance the 'NetSetup' utility to now have the ability to prompt for a printer from a drop-down combo-box that contains all installed printers |
| ☒ | Fix bugs in the 'NetSetup' utility – to do with extracting the Server address |
| ☒ | Fix 'Page n of m' functionality. The subpage/totsubpages internal counters were not updated correctly. |
| ☒ | Ensure that a new page is added and initialized when processing a report, even if there are NO triggers that specify 'New Page before'. |

(0 new features, 9 enhancements, 8 bug fixes: Total 359 new features, 32 enhancements, 200 bug fixes)

**Version 4.2  SP1 as of 25th August 2005**

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| ⚑ | Include 'RemoteFaxMonitor.exe' utility that is able to better monitor the fax queue when invoked from a remote PC (especially on a slow link). |
| ⚑ | Show the user and computername who starts and stops the fax monitors (remotely or locally). Also show the user who drags and drops files, and sends requests to the Fax server from the local and remote fax monitors. |
| ☒ | Fix 'Fax Any Document' option – was not allowing the fax cover page to be cleared if no cover page was required. |
| ☒ | Fix the NuVu Fax Service that was hanging up when processing an external document when the external document could not be associated with an application when run from the user defined for the service. |
| ☒ | Detect if the default printer cannot be set to the Fax Printer when processing faxes via the 'Fax any Document' tool. |
| ☒ | Fix occasional timing issue within the NuVu Fax Server/Service that could result in the same entry being processed repeatedly, irrespective of the 'number of retries' setting. |
| ☒ | Fix rbd_preview crash when a multi-page document is exported to excel from the command line. |
| ☒ | Fix the email blast of an XML report. The report was not being split up to the individual recipients in some cases. |
| ⚑ ☒ | Change the Fax Monitor to launch the NuVu report viewer as an independent process (from the Properties window of a selected fax entry). This now allows multiple fax entries to be simultaneously viewed, without blocking (freezing) the Fax Monitor until the viewer windows are closed. |
| ☒ | When faxing documents using the 'Fax any File' tool (or the NuVu rbd_preview reporting engine when run from a client PC) – the fax entry number was being allocated by the client PC, allowing the possibility of faxes being overwritten by other client PC's. The allocation of fax numbers is now done on the Fax Server itself. |
| ☒ | The NuVu 'Fax any File' tool was incorrectly reporting certain documents as not being able to be faxed. This was caused when multiple versions of the application associated with the document (example: Acrobat Reader 7 associated with .pdf files) had been installed on the client PC. |

(0 new features, 3 enhancements, 9 bug fixes: Total 359 new features, 23 enhancements, 192 bug fixes)

## Version 4.2 as of 30th July 2005

### Commercial Release

## Version 4.1 as of 29th July 2005

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| ⚑ | Change all log entries (fax, preview, poll, licence) to show timings down to hundredths of a second. |
| ☒ | Fix a potential performance problem when the 'rbd_preview' (NuVu Report Engine) is |

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| | launched from either the Poll Server/Service or the NuVu Licence Service. The launched program would have to complete its own initialization before passing control back to the server processes. Now control is passed back as soon as the rbd_preview process has started. |
| 🏳 | SMTP Emails are now retried 3 times before failing. |
| 🏳 | Blast email attachments are now created with a date/time stamp and guaranteed to be unique. This prevents possible conflicts when multiple email blasts are being performed simultaneously. |
| 🏳 | Logging of emai/fax blast information (for each recipient) is now automatically performed to the 'rbd_preview.log' file. |
| 🏳 | Failed SMTP emails during a blast run are now automatically emailed to the email address specified in the 'Blast Address' field as advised on the NuVu Configuration Wizard. |
| ❌ | Inherit the 'DeleteAfterView' parameter (the ninth parameter passed to the rbd_prepare utility) from the parent when processing the Fax, Email and Other recipients during a blast function. |
| ❌ | Fix bug in rbd_preview that was not including the global BCC address on the last email of a blast. |
| ❌ | Fix bug in rbd_preview that was causing the rectangles that are linked to downfields to view on top of (instead of behind) the down fields. **This bug only affects the processing of XML data.** |
| 🏳 | New Single install for MAPI and NON-MAPI – selected by the user during the install. Also prompt the user if the install is to assume that the licencing has been organized. |
| 🏳 | Include the new 'NuVu Service Manager' as part of the NuVu install. This tool can be used to manually (re)configure any of the NuVu Services (Poll, Fax or Licence). |
| 🏳 | Restructured the installed NuVu Program Group, and append the current NuVu version on to the end of the Program Group name. |
| 🏳 | Attempt to automatically grant required access rights ('Logon as a service' and 'Log on as a batch job') for the advised user on the Services page of the NuVu Configuration Wizard. |
| 🏳 | Add three new samples to the installation 'Docs' and 'Samples' folders. The first demonstrates outputting a cheque and remittance advice. The second demonstrates a complex Tax Invoice using xml data. The third demonstrates a banded Profit and Loss statement. |
| 🏳 | Changed the NuVuConfigWizard so that the 'Services' page now has a drop-down combo-box containing all valid users for the selected Domain. This takes the guess-work out of advising a valid usercode. |
| 🏳 | Allow a blank usercode to be advised on the NuVu Configuration Wizard 'Services' page. This will allow the NuVu services to be installed under the 'LocalService' user account, and is introduced to bypass issues with the advised user/password not being |

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| | correctly authenticated and causing the NuVu services to NOT install. This mechanism therefore allows for the services to be installed, and later modified to reflect the correct login credentials.<br><br>The user will be notified with an appropriate confirmation message if the user code is left blank on the NuVu Configuration Wizard 'Services' page. |
| ☒ | Although the 'Uppercase', 'Lowercase' and 'Capitalise' functions do not have any futher settings, allow a '= [yes\|no]' parameter to be advised. This is for backward compatibility to earlier versions that did not complain if this parameter was advised. |
| ☒ | Fixed bug with the insertion of the 'Fax Dial Prefix' setting. The Fax server was ignoring the advised setting at run-time. |
| ☒ | Fixed bug introduced in 4.1 – a trigger that is still current was not being output during overflow processing if that trigger was specified as 'non-floating'. |
| ⚑ | Changed the NuVu Configuration Wizard to allow selection of domain name (including the local user account). Also automatically set permissions on the NuVu registry root key so that all users are able to have full control over that section of the registry. |
| ☒ | Graphics marked as "Hide when Printing" were still being printed if the report was printed by clicking the Print button on the NuVu Viewer. |
| ⚑ | When performing a 'Blast' (multiple email, fax and print job) via the NuVu rendering engine, ensure that the created processing files are unique and do not already exist on disk before writing to them. This is achieved by appending a date/time stamp on to the end of the processing files. This prevents the possibility of having more than one blast being run at the same time that could have attempted to simultaneously write to the same processing filenames (which crashed the NuVu rendering engine in this case). |
| ⚑ | If a field is named "ReportDescription", then replace the default report description advised on the designer report properties window with this name at run-time. This name appears in the Excel export, Fax cover page and Email subject/default message. |
| ☒ | Fix problem when exporting a viewed report to Excel (directly) – when the preview finishes its job, the instance of Excel remained in memory. |
| ☒ | Bug with the "HideRepeating" logic – was hiding downfields after a new page was thrown. |
| ☒ | Do not default the BCC address to the advised Blast Email address if the BCC address has been left blank in the NuVu Configuration Wizard. |
| ⚑ | Enhance the FaxMonitor to load in only the most recent 200 lines of the Fax logfile. This overcomes the timing issue that was causing the log pane from blanking out from time to time. |
| ⚑ | Enhance the FaxServer/Service to handle unrecoverable errors (Com port errors, fax timeout issues) more robustly. |
| ⚑ | Provide a tick-box on the NuVu Configuration Wizard (and the Poll Server Options window) that will allow the user to choose whether advised folder and filenames are |

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| | converted to UNC format or not. The default is to convert to UNC, but in a Citrix environment this is not always desirable. |
| 🏳 | Allow a new placemarker ($E) to be advised within the 'Header' string printed at the top of each fax. If a $E is advised, this will be replaced with the actual entry number as displayed in the Fax monitor. This is useful for tracking a sent fax back to the source. |
| ☒ | Abort the current fax, if the fax configuration file cannot be written to. This prevents the Fax Server/Service from looping continually on a fax file that is marked as read-only (for example). |
| 🏳 | Ensure that the advised width or height of a rectangle does not result in the rectangle not being visible on the NuVu designer canvas. |
| ☑ | Add functionality to the NuVu FaxMonitor utility so that it is now able to be run across the network (ie: from a client PC that is not the NuVu Fax Server machine). |
| ☑ | Show Image width, height and size information when an image is selected on the Graphics dialog window. Also warn the user if the calculated size of the image is bigger than the pre-defined soft limit of 200,000 bytes. |
| ☑ | Add new tick-box to the trigger properties window – 'Reset Sub-Page Counter'. This allows the controlled resetting of the sub-page counter, that is useful for resetting the sub-page counter back to 1 at the start of a new logical set of pages (for example, at the start of a new customer). |
| ☒ | Fix bugs within the rbd_preview rendering engine when processing XML data. In particular, advance the position of the Ypos when either an advised 'down xml node' is first reached, or another trigger fires and we have not yet advanced the Ypos for the previous trigger. |
| ☑ | Add functionality that will force a new page when a floating trigger fires, and the fixed portion of that trigger will not fit on the current page. |

(4 new features, 19 enhancements, 8 bug fixes: Total 359 new features, 20 enhancements, 183 bug fixes)

## Version 4.1 Beta  as of 29th March 2005

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| ☑ | Add the rgb(red,green,blue) function to the conditional statements of both the Textbox and field/downfield objects. This allows the setting of the background or foreground colors down to individual red,green,blue values. There is also a button on the properties dialog window which can be used to select the color from a color palette dialog. This dialog is automatically invoked when selecting the rgb function from the associated drop-down 'attributes' combo-box. |
| ☑ | Add 'BCC Address' to the NuVu configuration wizard 'email' page. If an email address is advised into this field, then any automatic email processed through the NuVu rendering engine that results in email being sent, will also automatically blind copy the advised address with the email (in addition to any other BCC addresses advised within the specified configuration file). |
| ☑ | Add a 'Remember BCC' tick-box on the email dialog window that is displayed when the email button is clicked on the NuVu viewer. The BCC address stored in the registry |

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| | as a result of advising a 'BCC address' on the NuVu configuration wizard will be initially displayed in the BCC field, but the user may advise any other email address here, and if this tick-box is ticked, the advised value will be remembered next time the 'email' button is clicked from the NuVu Viewer screen. |
| ☑ | Enhance the logic within the NuVu Designer when attempting to find trigger starting rows. If a trigger cannot be located, a warning message is output to the screen, and the legacy report mapping is turned off (because it does not make sense to map if the trigger cannot be located). |
| ☑ | Increase width of the Trigger combo-box in the NuVu Designer, and create a 3<sup>rd</sup> toolbar line that only has trigger related information on it. Also display the FULL trigger identification information in the Trigger combo-box (and on associated messages). |
| ☑ | Allow the advice of the associated 'rbd_find' definition file to be used for all templates, available from the Designer Properties window. This setting is saved to the registry. When saving the current designer template to disk, retrieve this value from the registry instead of assuming that the 'rbd_find.def' file is going to be located in the same folder as the 'rbd_designer.exe'. This allows for distributed templates located on a different server to where the 'rbd_designer.exe' is being run from. |
| ☑ | When saving a design, check for duplicate search strings in the defined 'rbd_find' definitions file, and show these duplicated lines to the user, and optionally remove them after confirmation. Duplicate search strings lead to confusion at run-time, because the FIRST search string identified will be used, and this may not be the search string the user is expecting. |
| ☑ | Enhance the robustness of the 'FaxMonitor' and 'ViewLogs' utilities, so that file-locking issues do not result in the display of a blank log window. Also reduce the number of thread events being notified that was causing the monitors to eventually lock up. Also allow the utilities to be run from a shared drive across the network. |
| ☑ | Add a 'Soonest' tick-box to the fax dialog window, and default this to ticked if run from the interactive NuVu viewer. If this tick-box is ticked, then the resulting time field is not shown, and silently set to 1 minute after midnight on the date the fax is requested to be sent. Also set the fax time when run from the poll server to be set to 1 minute after midnight, so that differences in daylight saving time are ignored, and faxes will be immediately sent. |
| ☑ | Allow 'FaxSubject=', 'EmailSubject=' and 'EmailBody=' in the email/fax configuration files, so email will use emailsubject=/emailbody= and fax will use FaxSubject=/CoverPage=. This now allows different subjects and messages to be output during a blast, depending of whether the current document is going to be delivered via fax or email. For backward compatibility, the original 'Subject=' and 'Message=' will still be defaulted back to for both fax and email when the new keywords are not advised within the configuration files. |
| ☑ | 'Ignore blank rows' on repeating rectangles must only happen if the line is completely empty (ie: if underlines, then still do rectangle) |
| ☑ | Add new functionality to the reporting. Up to 50 amount fields can be used within any one report. These totals can be manually assigned, accumulated and printed at any stage. This provides functionality that allows running totals, and other mathematical functions to be applied within the report. |

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| ☑ | Increase size of the text read buffer, from 300 characters to 1000 characters. This buffer is used to store the current line of a legacy report. |
| ☑ | Add a sample 'conditions.rbd' template (plus associated conditions.txt sample report) to the standard install. This design shows various examples of performing conditional formatting on the legacy text of a report. |
| ☑ | Change the logic within the conditional statements when processing a field(…) statement to check downfields and normal fields when processing any downfield. Previously only downfields where being checked. |
| ☑ | The field(…) statement inside conditional statements must only retrieve values from the original textfile, if that fields position (col) is >= currents field column (rows must be the same) |
| ☑ | Add the 'format' function to the conditional statements. This allows a variety of string formatting to be applied to the associated field. Automatic translation from string to integer/decimal is performed by this function, as appropriate. Please refer to the on-line help and reference manual for more details. |
| ☑ | Improved the conditional statement processing even further, and improved performance when processing conditional statements. |
| ☑ | Added new option to the report previewer – ability to automatically close the preview window after any successful print/email/fax or blast has been performed. This setting is available from the 'Options' toolbar button, and is remembered in between sessions. |
| ☑ | Add 'Remember BCC' tick box to email dialog window, and default the 'To' address to blanks (unless this is an email blast). Also default the email to attach the report in PDF format (which is the more common option these days).<br>Do not validate the 'To' email address if left blank AND the current email setting is MAPI, and the user has chosen to view the MAPI send mail dialog. This allows the user to use the address lookup functions within the MAPI send mail dialog without having to first advise a non-blank email address on the NuVu email dialog window. |
| ☑ | Allow viewed reports within the NuVu viewer to be saved in standard Adobe Acrobat format (.pdf files). |
| ☑ | Insert Registry permission checks into the NuVu Previewer (before saving printer settings, email settings, fax settings and Zoom settings). An appropriate error message is displayed instead of the previous exception event that also prevented the viewer from being closed, except from the task manager. |
| ☑ | Added a flexible formatting capability to the 'FormatDateTime' function available within the label object drawn with the NuVu Report Designer. The on-line help and reference manual contains all available formatting strings that can be advised for this function. |
| ☑ | Allow conditional statements like: if addr1 = field(addr2) (or) if val(balance1) <> val(field(balance2)) …. Previously the right-hand side value was always interpreted as a literal value, now it can be evaluated from another field. |
| ☑ | Rbd_find and Rbd_prepare utilities now output version information, and results to the command-line. |

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| ☒ | Fix bug with 'don't check triggers until starting downrow' option that was not checking any further triggers even if the starting downrow had been reached. |
| ☒ | Fix field underline problem when outputting downfields to PDF – line was being shown longer than expected. |
| ☒ | Rbd_find.exe (the find template utility) was only processing text lines up to 500 bytes long – changed to process unlimited length lines. This applies to the Unix/Linux derivatives of this function too. |
| ☑ | All NuVu logfiles now try to output the message 10 times, and then silently fail – this change prevents messages from being lost in a busy multi-user environment. |
| ☑ | All products now output log information containing long filenames, as opposed to the short DOS 8.3 format. |
| ☒ | Change the 'NuVuConfigWizard' to automatically set the installation to check licencing if the 'licence server' option is set to anything other than 'localhost'. This prevents a normal install utilizing the licence server to show the 'Evaluation Copy' message on the reports. |
| ☑ | Refined the 'NetSetup' utility to now have the ability to prompt for up to six values before the NetSetup is executed. This allows for more customization during the install. |
| ☑ | Allow BCC email addresses to be advised inside the email configuration file processed by the rbd_prepare utility. |
| ☑ | Create new install (both demo and full) that excludes ability to email via MAPI. This install can be used on servers that are running Microsoft Exchange. Microsoft Exchange has a known issue of crashing programs that have embedded ability to send/receive MAPI mail. |
| ☑ | Provide ability to now also export DIRECTLY to Excel from the NuVu Preview tool. The text that is output is properly formatted, and the column headings have an 'auto-filter' capability. Each trigger is output to its own Excel sheet. |
| ☑ | Provide the ability to attach additional attachments (as many as you like) when emailing from the NuVu preview tool, or via the 'email', 'email blast', or 'blast' command-line invocations of the rbd_preview tool. |
| ☑ | Provide a new function within the NuVu Reporting Suite – the ability to fax ANY document through the NuVu Fax Server. A new executable (NuVuFaxFile.exe) is now installed into the NuVu program group that can be invoked to fax any document that is able to the background printed (this includes Word documents, Excel worksheets, PDF documents etc). A new 'Fax using Nuvu' menu item is automatically attached to the current menu items when a file is right-clicked within the Windows Explorer. |

(33 enhancements, 4 bug fixes: Total 355 enhancements, 169 bug fixes)


## Version 4.00 SP4 as of 7th February 2005

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| ☒ | Store the folder of the most recently saved or loaded designer template into the registry, and use this setting for the next load or save of a template. |

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| ☑ | Changed the NuVu Configuration wizard to automatically set all the NuVu services (Fax, Licence and Poll) to restart if they fail for any reason. |
| ☑ | Do not clear the clipboard between designer sessions (thus allowing pasting from one design to another). |
| ☑ | Check the 'RbdFindDefPath' registry entry when determining what rbd_find.def to update within the designer – also add to designer options. |
| ☒ | Restore original settings of the designer properties window if the 'Cancel' button is clicked. |
| ☒ | Fix tooltip captions for items in the 'designer properties' window. |
| ☒ | When exceeding the maximum triggers, only output the 'Demo version' part of the error if running the demo version |
| ☒ | Bug when outputting PDF for left-justified fields with leading spaces, truncates the output |
| ☒ | Fix bug with the 'conditional processing' statements within the report previewer, that did not handle multiple nested if, else, endif statements correctly. |
| ☒ | Fix bug with the 'conditional processing' statements within the report previewer, that did not handle brackets within quotes strings correctly. |
| ☒ | Fix bug with the 'conditional processing' statements within the report previewer, that did not handle a single quote followed by a space correctly. |
| ☒ | Fix bug when loading a definition into the designer, where the displayed trigger was scrolled horizontally or vertically, resulting in the loaded report being wrongly positioned on the designer canvas. |

(3 enhancements, 9 bug fixes: Total 322 enhancements, 165 bug fixes)

## Version 4.00 SP3 as of 7th February 2005

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| ☑ | Additional checking for locked / duplicate files when attempting to move pending faxes to either the Sent or Failed folders. This includes sending an email to the administrator in the case of locked files. This overcomes the repeated sending of a fax to a recipient if the fax cannot be moved from the Pending folder after processing. |
| ☒ | Fix Delphi bug that was causing rbd_preview.exe to output an error message when there was no default printer selected. This bug was causing rbd_preview to stall when it was run from any of the NuVu services. |
| ☑ | Introduce a 'DebugPreview' registry setting that enables verbose debug messages to be output to the rbd_preview.log file if this registry setting is set to 'y'. |
| ☒ | Fix 'Range Check Error' within the NuVu report designer, when the font size up/down arrow was clicked repeatedly.  The 'up/down' font size chooser was firing unexpected events during the resize, so was replaced with a standard combo-box. |

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| ☒ | Fix 'Access Violation' errors encountered with the NuVu report designer, when a trigger was deleted and there was an object selected on the trigger that was deleted. |
| ☒ | Fix a problem which resulted in the height of the fields on triggers (after the deleted trigger) being shown incorrectly after a trigger was deleted. |

(2 enhancements, 4 bug fixes: Total 319 enhancements, 156 bug fixes)

## Version 4.00 SP2 as of 23<sup>rd</sup> December 2004

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| ☒ | Change rbd_preview.exe to output fax messages to the NuVuFaxServer.log in the 'Log' folder, instead of the FaxRoot folder. Same applies to the rbd_prepare.exe utility that was outputting (sometimes) messages to the NuVu install folder, instead of the 'Log' folder. |
| ☑ | Change the 'Blasting' function within the NuVu report previewer NOT to invoke the viewer to process the Fax,Email or other destination if no recipients found for the respective destination. |
| ☑ | Change the email blast destination within the NuVu report previewer to only default to the 'Attached Report' subject and message lines if there is no configuration file associated with the passed .rbi file. |
| ☑ | Provide new option for the P: destination parameter, so that the default printer can be used. This is specified as P:<default>. |
| ☒ | Fixed minor bug with text that contained multiple single-quotes – sometimes caused the remaining attributes of the current object to be omitted/truncated. |
| ☑ | Provide a new '<PASSTHROUGH>' trigger which if used (on its own) in a design, results in the original text report to be simply passed through the NuVu Processing Engine UNTOUCHED. This feature can be used to enable certain text reports that have embedded escape sequences in them (to open the POS till, or cut the POS paper slip for example) to pass through to the destination print spooler untouched by NuVu (and the Windows printer driver). |
| ☒ | Fix bug when report / image can't be found when opening a design within the NuVu Designer – the first part of filename was only being shown if the filename or path had spaces in it. |
| ☒ | NuVuPollServer - Always log the destination of the .rbi file to the logfile. Also, only add the '-silent' option if the 'Allow reports to be viewed' option is NOT ticked. This was preventing a report from being viewed. |
| ☒ | Ensure that the NuVu report designer window is disabled while the user is editing the sample report. |
| ☑ | Ensure that the NuVu report previewer is brought in front of all other windows when a report is viewed. Recent changes to the Windows operating system was preventing this if the previewer was being invoked from the Poll Server. |

(5 enhancements, 5 bug fixes: Total 317 enhancements, 152 bug fixes)

## Version 4.00 SP1 as of 18<sup>th</sup> November 2004

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| ☒ | Changed installation script to NOT mark the installation as an evaluation copy if this is a re-installation of the product. |
| ☒ | Fixed bug with the 'FormatTheString' function within the rbd_preview tool, that was causing fields to be trimmed if no format string was advised. This causes the standard Portrait and Landscape templates to show the report incorrectly formatted. |
| ☒ | Fixed bug with the 'Blast' destination, resulting in the printing of the pages not destined for Fax or Email to fail with the message 'Device cannot be located'. This was due to the fax/email parameters being attached to the end of the printername. |

(0 enhancements, 3 bug fixes: Total 312 enhancements, 147 bug fixes)

## Version 4.00  as of 6<sup>th</sup> October 2004  (Official release)

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| ☒ | Fixed minor bug with the NuVu Poll Server – when the 'users can view reports' was ticked, the rbd_preview was still being invoked with the '-silent' option that resulted in no report being available for viewing. |
| ☒ | Fixed minor bug with 'non-floating' triggers firing on overflow that were sometimes not positioning the text correctly. |
| ☒ | Fixed minor bug with right-aligned fields not quite being aligned (and sometimes being prematurely cut off when printing to certain printers). |
| ☒ | Fixed bug within the conditional statement processing when using the 'Trim', 'Sum' or 'Convert_date' functions and the 'currfield' specifier – was not refreshing the value of the current field. |
| ☒ | Fixed minor bug with new '(%' formatting strings which did not replace the negative sign when the brackets were placed around the text. |
| ☒ | Fixed minor bug when aligning 'centered' fields when the 'can set field widths' is NOT set. |
| ☒ | Fixed bug which resulted in the 'automatic underline' feature of a right-justified field to be overridden if the field had a numeric format string – resulting in a value of zero being represented in this case. |
| ☑ | When printing negative numbers with brackets around them or negative numbers with trailing negative signs, ensuring that the decimal points still line up. |
| ☑ | When a fax fails, attach the actual fax image to the email sent to the recipient, so that the fax can subsequently be viewed and printed from within the email. |

(2 enhancements, 7 bug fixes: Total 312 enhancements, 142 bug fixes)

## Version 4.00 Beta 27 as of 15<sup>th</sup> September 2004

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| ☒ | Fix bug with labels and text-boxes that contain ampersands – these were being replaced with underscores (which is standard Windows behavior). |

| ☑ | Provide new functionality with emails and faxes, so that the subject and body of the fax cover page or email can now have embedded field tokens, matching the fields in the actual NuVu report. These field tokens are replaced prior to faxing or emailing with the actual contents of the field at run-time. The format of a field token is as follows:<br>@[<fieldname>], where <fieldname> is the name of the defined field in the NuVu report. |
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| ☑ | Provide new functionality that allows NuVu to be installed and run without the previously required registration step. All output will however contain an 'UNREGISTERED' message until the product is registered properly. |

(2 enhancements, 1 bug fix: Total 310 enhancements, 135 bug fixes)

## Version 4.00 Beta 26 as of 8th September 2004

| ☒ | Fix bug with emailing a range of pages (or a single page that is not the first page), was resulting in the attached report being blank. |
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(0 enhancements, 1 bug fix: Total 308 enhancements, 135 bug fixes)

## Version 4.00 Beta 25 as of 31st August 2004

| ☑ | Provide native support for barcode types "2 of 5" and "interleaved 2 of 5". This is implemented WITHOUT true type fonts – the barcode is rendered by drawing black lines directly onto the canvas. Therefore this new method is supported when outputting either to the proprietary NuVu viewer, or alternatively to the PDF format. Barcodes can also be output horizontally, vertically (up or down) or upside down. The following new attributes are included on the 'Field Properties' window, to support barcodes:<br>• Barcode2of5<br>• Barcodei2of5 |
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| ☑ | Provide new conditional attribute 'replace' that will replace all occurrences of the advised old text string with the advised new text string. |
| ☑ | New 'moneytowords' conditional attribute on fields/down-fields that allows a numeric value to be converted to words. Eg: A value of 1234.56 would be converted to "ONE THOUSAND TWO HUNDRED THIRTY FOUR DOLLARS FIFTY SIX CENTS". |
| ☒ | Fix bug with the 'EQ/NE' combo-boxes on the trigger properties that stay disabled when advising a trigger text starting with '<NONBLANK'. |

(3 enhancements, 1 bug fix: Total 308 enhancements, 134 bug fixes)

## Version 4.00 Beta 24 as of 29th August 2004

| ☑ | Provide native support for barcode type "3 of 9". This is implemented WITHOUT true type fonts – the barcode is rendered by drawing black lines directly onto the canvas. Therefore this new method is supported when outputting either to the proprietary NuVu viewer, or alternatively to the PDF format. Barcodes can also be output horizontally, vertically (up or down) or upside down. The following new attributes are included on the 'Field Properties' window, to support barcodes:<br>• Barcode3of9 |
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| ☑ | <ul><li>BarcodeLineWidth</li><li>BarcodeCheckDigit</li><li>BarcodeInterSpace</li><li>BarcodeBleed</li><li>Angle</li></ul> |
| ☑ | Provide ability to conditionally rotate fields and downfields at run-time. This is implemented via a new 'angle =' attribute available from the 'Field Properties' window. Values of 0 (normal orientation), 90 (vertical up), 180 (upside down) or 270 (vertical down).  Example:  Angle = 90 |
| ☒ | Fix bug with the 'hiderepeating' attribute inside conditional statements – was only hiding the 1$^{st}$ occurrence of repeated text. |

(2 enhancements, 1 bug fixes: Total 305 enhancements, 133 bug fixes)

## Version 4.00 Beta 23 as of 25$^{th}$ August 2004

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| ☑ | Increase the number of allowed labels on a single trigger from 50 to 100. |
| ☒ | Fix bug with the 'email blast' (EB) option of the NuVu report processor – was sending individual emails for each page to the same recipient instead of collating the pages. |
| ☒ | Fix bug with the 'fax blast' option (FB) of the NuVu report processor – was not picking up the destination correctly, if the optional fax configuration file was advised. |
| ☒ | Fix bug with the NuVu Designer that was not copying the 'Round Rectangle' attribute of a rectangle when doing a copy/paste. |

(1 enhancements, 3 bug fixes : Total 303 enhancements, 132 bug fixes)

## Version 4.00 Beta 22 as of 24$^{th}$ August 2004

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| ☒ | Fix bug with the 'BringToFront' button on the NuVu designer – did not assign the first selected object correctly. |
| ☒ | Draw rounded rectangles in the NuVu Designer with the same corner aspect as per the NuVu preview tool – previously the corners were drawn with an ellipse as a percentage of the rectangle width or height (whichever was smaller). |

(0 enhancements, 2 bug fixes: Total 302 enhancements, 131 bug fixes)

## Version 4.00 Beta 21 as of 21$^{st}$ August 2004

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| ☑ | Add optional "(" and "-" support to the field/downfield format attribute. If any of these optional characters are added to the FRONT of the format attribute, this will result in negative numbers being formatted with brackets or a leading negative sign, irrespective of the current Windows currency/numeric settings. |
| ☑ | Attempt to start the Windows "Telephony" service when the NuVu Fax service starts. This is to fix a potential problem with some versions of Windows that do not automatically start the Telephony service. |

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| ☒ | Fix bug introduced in V4 Beta 19 that was causing rectangle objects to be drawn on top of other objects in the designer. The Designer now saves non field objects first and then performs the sort into Y/X order. |
| ☒ | Fix bug in the NuVu Designer 'multiple properties' window, resulting in the foreground, background, fill or border color being set to black if a 'custom' color was selected. |
| ☒ | Fix bug in the Designer that was causing not all objects selected with the lasso to have drag handles drawn around them, even though they were actually selected. |
| ☒ | Fixed an obscure bug resulting in a corrupted graphic representation of a report, when a character with an ordinal value of over 128 is used in text fields and conditional statements. |

(2 enhancements, 4 bug fixes: Total 302 enhancements, 131 bug fixes)

## Version 4.00 Beta 20 as of 11th August 2004

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| ☑ | Changing NuVuConfigWizard to only allow NuVu services for V4.00.  The NuVu Fax and FTP servers are now deprecated.  In addition, all report preparation is now only supported on Windows platforms – therefore the rbd_find, rbd_lic and rbd_prepare utilities are only distributed for the Windows platform. |

(1 enhancement, 0 bug fixes: Total 302 enhancements, 127 bug fixes)

## Version 4.00 Beta 19 as of 8th August 2004

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| ☒ | Fix bug introduced in V4 Beta 15 that was resulted the 'rbd_find' utility outputting a destination configuration file with the same extension as the configuration file optionally output when using the poll server – this caused the rbd_preview to crash under certain circumstances (when destination was fax or email). |
| ☑ | Sort objects within a trigger in ascending value of Y and X co-ordinates, so that export to Excel will result in fields being output in the displayed order of the report. |

(1 enhancement, 1 bug fix: Total 301 enhancements, 127 bug fixes)

## Version 4.00 Beta 18 as of 4th August 2004

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| ☒ | Fix bug introduced in V4 Beta 16 that was resulting in fields being blanked out if they were not on the current processing line of the legacy report. |

(0 enhancements, 1 bug fix: Total 300 enhancements, 126 bug fixes)

## Version 4.00 Beta 17 as of 1st August 2004

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| ☑ | Introduce new attributes for conditional processing of fields at run-time:<br>➡ Logicalrow<br>➡ X<br>➡ Y<br>Also allow the 'sectionheight' attribute to be used in 'if' statements. |

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| ☒ | Fix bug with 'endif' conditional statement. |

(1 enhancement, 1 bug fix: Total 300 enhancements, 125 bug fixes)

## Version 4.00 Beta 16 as of 25<sup>th</sup> July 2004

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| ☑ | Check page overflow before a logical row set. This prevents a logical row from being split across pages of the generated graphical report. |
| ☑ | Add <BEFOREOVERFLOW> trigger that is called when overflow is about to happen on the current page. This differs from the <OVERFLOW> trigger that is fired once the new page has been drawn to the canvas. This trigger can be use to output 'details continue on next page' or similar text/rectangles/bitmaps. |
| ☑ | Add 'endif' statement to the available conditional statements. This allows multiple nested if statements to be processed correctly. |
| ☑ | Validate any fields within conditional statements at design time, to ensure that any references to fields are fields that have a report row less than or equal to the report row of the current field. |
| ☑ | Output '?fwd' as the result of conditional statements referring to fields that have a report row greater than the report row of the current field. |
| ☑ | Allow the user to advise their choice of text editor to use when the 'Edit Report' button is clicked on the designer toolbar. This setting is advised on the Designer Properties window. |
| ☑ | Provide new facility on the NuVu Fax monitor that allows verbose debugging to be turned on or off – useful when trying to determine why faxes are not being sent. |
| ☑ | Allow the trigger firing text string to be searched for equality or inequality. This applies to the 1<sup>st</sup> and 2<sup>nd</sup> search strings, and the 1<sup>st</sup> and 2<sup>nd</sup> stop search strings. |
| ☑ | Provide new logic within the NuVu rendering of reports (rbd_preview.exe) that will correctly handle a multiple-line logical downfield set that is split between another trigger. For Example, a logical downfield set of 5 rows might be placed on either side of a page break. When the primary downfield trigger resumes, it will restore the previous settings of the SectionHeight and logical row number. |
| ☒ | Call the 'ProcessCondition' procedure for each field that is processed during overflow processing – this fixes the bug that was causing overflow fields to always output to the canvas, overriding the conditional processing of each field. |
| ☒ | Fix problem with missing 'Email From' and 'Recipient' fields when faxing reports through NuVu – now defaults the 'Recipient' name to '<not specified>' and the 'Email From' field to the 'Email To' field. |
| ☒ | Fix problem when rendering reports with rbd_preview, that caused a conditional statement of a field that had a report row of less than 1 that referred to a field on the same report row as the current field to return invalid values. |
| ☒ | Copy and Paste functions within the designer were corrupting the 'conditional |

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| | statement' field. |
| ☒ | Trap runtime errors when executing the 'convert_date' conditional statement – previously if a date error was encountered, rbd_preview would crash. |
| ☒ | Fix bug that was causing a field from being moved randomly to a new position on the design canvas if the fontsize was changed while one or more items were selected. |

(9 enhancements, 6 bug fixes: Total 299 enhancements, 130 bug fixes)

## Version 4.00 Beta 15 as of 18th July 2004

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| ☑ | Change the NuVu Configuration Wizard to be more intelligent with regards to uninstalling/reinstalling services and servers. Also show the name of the current domain on the 'Services' page. Warn the user (on the 'Finish' page that a full install is going to happen (if it is), and that the windows services console must be closed (if appropriate). |
| ☒ | Fix nested if statements not being handled correctly in the conditional statements for fields and downfields. |
| ☑ | Change the NuVu Designer so that if a previously selected item is clicked again, it will be de-selected. |
| ☑ | Enhance checking of trigger text so that strings can be checked for equality or inequality. |
| ☑ | New trigger option (on downfields) – to ignore blank rows in the down section. |
| ☑ | Add 'Wheel Mouse' events to the designer canvas. This allows the mouse wheel to be used to scroll the canvas vertically. |
| ☒ | Fix drawing of the rulers around the designer canvas when a new trigger is selected. |
| ☑ | Change the NuVu Designer so warn about missing triggers in a single message window instead of the individual message windows as per previous versions. Also only warn when a definition is loaded from disk or saved to disk. |
| ☒ | Fix minor bugs with the 'conditional processing' validation in the NuVu Designer. These bugs were preventing the user from advising 'attribute = attribute +/- value'. |
| ☑ | Change the NuVu Designer to now also allow the user to advise the optional destination string in the 'ID' section of the report options dialog. This destination string is written to the 'rbd_find.def' file at column 110. This is to support the new feaure in Beta 14 that allows optional destination strings to be associated when the 'rbd_prepare' engine is called to prepare the report for processing. |

(7 enhancements, 3 bug fixes: Total 290 enhancements, 124 bug fixes)

## Version 4.00 Beta 14 as of 14th July 2004

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| ☒ | Fix bug in the preview which resulted in sections marked for repeating when page |

| | overflows to repeat on each page irrespective of if the new page was as a result of overflow or not. |
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| ☑ | Include ability for the advise of optional destination information inside the 'rbd_find.def' file. This allows the POLL engine to output to alternate printers (and bins) depending on the report being processed. |

(1 enhancement, 1 bug fix: Total 283 enhancements, 121 bug fixes)

## Version 4.00 Beta 13 as of 10<sup>th</sup> July 2004

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| ☒ | Fix bug in the 'conditional formatting' validation – introduced in V4 Beta 1. An assignment command (like 'hidden = false') was attempting to validate the [true\|false] to be a valid field, instead of a Boolean value. |
| ☑ | Include logic inside the designer that will validate that the 'Downfields start' row is always >= any advised field row. |
| ☑ | Include logic inside the preview tool that will reset the 'Downfields start' row to one greater than the last field row, if there are no defined downfields in the respective trigger. |
| ☑ | Introduce new functionality to be used with reports processed via the Poll engine, so that a 'column offset' can be advised in the Configuration wizard that will re-map all fields and downfields by this advised offset. This is due to different versions of generic text printers resulting in text being output in a slightly different position. |

(3 enhancements, 1 bug fix: Total 282 enhancements, 120 bug fixes)

## Version 4.00 Beta 12 as of 28<sup>th</sup> June 2004

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| ☒ | Fix bug in the 'conditional formatting' validation – introduced in V4 Beta 1. An assignment command (like 'caption = "fred"') was attempting to validate the quoted string to be a valid field, instead of a literal string. |
| ☑ | Improve Designer Wizard, so that it also works for floating sections. |
| ☑ | New Configuration Wizard, replacing the old Nuvu Configuration tool. |
| ☒ | Replace double-quotes in the passed "Destination" string passed to rbd_prevew.exe – fixes problem with rbd_preview.exe not being able to pick up the destination string correctly. |
| ☑ | New facility within the NuVu Designer, which allows the user to re-map an existing field or downfield to a new selected text in the legacy report. This is achieved by first selecting a single field (or downfield), then selecting a new area in the legacy report and clicking the F8 key to auto-remap the field. |

(3 enhancements, 2 bug fixes: Total 279 enhancements, 119 bug fixes)

## Version 4.00 Beta 11 as of 14<sup>th</sup> June 2004

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| ☒ | Change Fax Monitor to reflect the correct try # in the 'Tries' column of the Pending folder, as per the log entry. |
| ☑ | Output more information to the 'rbd_preview.log' file for each entry that is processed through the NuVu rendering engine. This information shows the actual destination, email addresses, fax numbers etc. |
| ☒ | The Fax Monitor was showing the 'Sent', 'Pending' and 'Failed' folder contents in descending order (most recent first). Change the 'Pending' folder to show the entries in ascending order, so the top-most entry is normally the one being currently faxed. |
| ☑ | Prevent a fax entry from being dragged from the 'Pending' folder to another folder (in the Fax Monitor) if that entry is currently being faxed. |
| ☑ | Do not show brackets around the Fax Recipient name if the name is blank (when adding entries to the Fax Log). |
| ☒ | When an entry is double-clicked and modifications are made to an existing fax entry, auto-refresh the applicable folder after saving the details. |
| ☒ | Fix problem when attempting to drag an item from the 'Sent' folder list, back to the 'Pending' folder – was attempting to drop it into the 'Failed' folder instead. |
| ☑ | Provide new 'Email / Print Fax Log Now' button on the Fax Monitor – allows the contents of the fax log to be immediately printed and/or emailed instead of waiting for the next scheduled email/print event. |

(4 enhancements, 4 bug fixes: Total 276 enhancements, 117 bug fixes)

## Version 4.00 Beta 10 as of 6th June 2004

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| ☑ | Change SMTP email to allow user to decide on the Binary encoding (base64, mime, yenc, uuencode) and Character Set (utf-8, us-ascii, iso-8859-1, windows-1252) when sending emails. This information is advised on the 'Email' tab of the NuVu Configuration utility. |
| ☑ | Change NuVu Configuration to ask if email notification for failed faxes is needed. Before this was non-optional – failed faxes were always emailed. |
| ☑ | Improve robustness of the Poll server – if files are deleted during folder processing, then this is logged rather than producing an error message (which was suspending the Polling server/service). |
| ☒ | Include the 'blat.exe' SMTP helper application in the installation program. |
| ☑ | Change NuVu Configuration utility to prompt the user whether to do a full uninstall/reinstall (as was the only option in the past), or alternatively to only stop and restart the server/services with new applied settings. |
| ☑ | New Unix and Windows scripts included in the install to cater for integration via ftp (nuvu_ftp.sh/nuvu_ftp.bat), Poll engine (nuvu_poll.sh/nuvu_poll.bat) or self-service (nuvu_selfserve.bat) |

| ☑ | Change the Fax monitor to show Pending, Failed and Sent items in descending sequence (latest first). |
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| ☑ | Introduce new fax settings that allow automatic purging of the Pending and Sent fax queues after the advised number of days. |

(7 enhancements, 1 bug fix: Total 272 enhancements, 113 bug fixes)

## Version 4.00 Beta 9 as of 30th May 2004

| ☑ | Further fine-tuning of the Fax Log Print/Email |
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| ☑ | Self-Install utility for auto-installing and configuring a client PC from a central server |
| ☑ | Complete the 'Test Server' utility which will assist in determining the correct installation of NuVu Server components |

(3 enhancements, 1 bug fix: Total 265 enhancements, 112 bug fixes)

## Version 4.00 Beta 8 as of 26th May 2004

| ☒ | Process fields of first downfield row of trigger when there are no downfields in the trigger, before reverting back to the primary down trigger. |
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(0 enhancements, 1 bug fix: Total 262 enhancements, 111 bug fixes)

## Version 4.00 Beta 7 as of 25th May 2004

| ☑ | Enhance PDF output of Textboxes so as to cater for right-justified and centered text. |
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| ☑ | Introduce ability for the contents of the Fax Server/Service logfile to be printed and/or emailed at a specified time, on any chosen days of the week. Once the logfile has been successfully emailed and/or printed, a backup is automatically made of the file, and the contents are then purged. |

(2 enhancements, 0 bug fixes: Total 262 enhancements, 110 bug fixes)

## Version 4.00 Beta 6 as of 20th May 2004

| ☑ | Change all text fields, normal fields, down-fields and text-box foreground and background colors to white or black if we are faxing the document. The NuVu fax engine only processes black and white faxes, so any objects that were not black and white where being omitted from the fax. |
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| ☒ | Fix bug that was resulting in faxes being set to always start at 12 noon if no specific time was advised inside the fax configuration file. |
| ☒ | Fix bug with centered fields and down-fields when outputting to PDF format – resulting in the objects being drawn to an incorrect X position on the canvas. |
| ☒ | Fix bug that was resulting in text-boxes ALWAYS being drawn with a white |

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| | background, instead of the background color advised for the textbox. |
| ☒ | Ensure that when a 'template' design is attempted to be saved within the designer, that it contains one and only one trigger. Prior to this fix, if a user created a 'template' design with more than one trigger, it caused erratic behavior when the report was previewed. |

(1 enhancement, 4 bug fixes: Total 260 enhancements, 110 bug fixes)

## Version 4.00 Beta 5 as of 16th May 2004

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| ☑ | Add 'Force new page when this trigger ends' option to the Trigger properties window. If ticked, this will ensure that a new page is invoked before any further output to the canvas. |
| ☒ | Fix bug with the designer, that was resulting in garbled output on the preview canvas the second time that preview was invoked, if there was NO primary trigger defined on the report. |

(1 enhancement, 1 bug fix: Total 259 enhancements, 106 bug fixes)

## Version 4.00 Beta 4 as of 13th May 2004

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| ☑ | Enhance the Poll Engine so that it will read an optional .rbx configuration file that had the same as the legacy report file. This configuration file must contain a 'destination=' line which has a value after the '=' sign of any valid destination (as outlined in the rbd_prepare section of the NuVu technical manual. |
| ☒ | Fix 'Band Height' field on the Report Properties window of the NuVu Report Designer – it was only allowing an integer value. |

(1 enhancement, 1 bug fix : Total 258 enhancements, 105 bug fixes)

## Version 4.00 Beta 3 as of 12th May 2004

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| ☒ | Ensure all mapped drives in the NuVu Configuration utility are converted to UNC names. This is important especially when the various NuVu services are running, because all drive mappings are LOST when running as a service. |
| ☒ | Fix bug with NuVu Polling Server/Service when attempting to process pre-processed .rbi files – the .rbi file remained in the polling folder, resulting in multiple reprocessing of the same .rbi file. |
| ☒ | Fix bug that was resulting in the "default" templates for Landscape and Portrait to be deleted the first time they are automatically chosen (when a template cannot be found for a report). |

(0 enhancements, 3 bug fixes: Total 257 enhancements, 104 bug fixes)

## Version 4.00 Beta 2 as of 10th May 2004

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| ☑ | Add new 'Revert to Primary Down Trigger when this trigger ends' tick-box to the Trigger Properties window. This tick-box is useful for ending a down trigger when the |

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| | stop condition is met (for example, when there are blank detail rows that need to be ignored until the next trigger fires). |
| ☑ | Add new 'Lines Per Page' option to the Report Properties window. This field defaults to zero (indicating that the legacy report contains form-feeds to designate the end of a page), otherwise a non-zero positive value can be advised here to determine the number of lines per logical page. This setting is only useful if a <NEWPAGE> trigger is required on a legacy report that does not have form-feeds separating the pages. |
| ☑ | Add new 'sum' field conditional statement that allows multiple fields to be added together and shown in the current field. Example: sum(Balance - GST) would subtract the numeric GST field from the Balance field and show the results in the current field. |

(3 enhancements, 0 bug fixes: Total 257 enhancements, 101 bug fixes)

## Version 4.00 Beta 1 as of 17<sup>th</sup> April 2004

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| ☑ | Add ability to multiple-select 'SENT' items in the fax monitor and press DELETE to delete them permanently. A warning dialog is issued before any deletion takes place. |
| ☑ | Add new functionality to rbd_preview command-line interface. Emailing can now advise an email configuration file (similar to the Fax Configuration file) that will be read in to determine the subject, to addresses, cc addresses, message body etc. |
| ☑ | Change fax capability so that the preview engine can send faxes independently of the Fax Server/Service. |
| ☑ | Add new capability to the Fax configuration file: EmailName and EmailAddr can now be advised, which will result in notifications being sent to the advised email address for any failed faxes. |
| ☑ | Enable drawing of round rectangles when outputting to PDF format. |
| ☒ | Fix bug with drawing background color of text, fields and downfields when outputting PDF format. |
| ☒ | Fix alignment bug with drawing center-aligned text fields. |
| ☑ | Change NuVu Reporting Suite to use the standard XP style of buttons, fill-in fields, combo-boxes, tick-boxes, radio buttons, spin-boxes etc. These will only be used if the operating system is XP or later. |
| ☑ | Change the focus rectangle that used to be drawn around fields and downfields to a solid 3D look. Also show the same behavior in Text Boxes (which did not previously show the focus rectangle around the object). |
| ☑ | New feature of the NuVu Report Designer, that allows users to specify CUSTOM colors for the foreground or background color. |
| ☑ | Change behavior inside the designer so that if just the 'right-click' button is clicked on an object the all previously selected objects will be de-selected. This follows normal behavior in other designer packages. |

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| ☒ | Fix a Windows XP bug which does not pass the filename which has been double-clicked from the Windows explorer as a single parameter if the filename has any spaces in it. The NuVu Designer was therefore bringing up an empty window in the case. |
| ☑ | Add a 'Trim' attribute to the conditional field and textbox property windows. |
| ☑ | Add a 'SectionHeight' attribute to the conditional field and TextBox property windows. This attribute can be used to control the height of variable output sections. For example, if there are variable down rows that are output to the legacy report, you can set the 'Section Height' property on the trigger to the minimum value, and increment it when finding non-blank fields. For example:<br><br>if currfield <> "" then<br>  sectionheight = sectionheight + 4 |
| ☑ | Add new options to Trigger downfields section: 'Logical row starts with', 'in column'. These new parameters can control VARIABLE downfield sets of rows. For example there may be a downfield section that has at most 4 actual rows per each logical rows, but the 4th line is only output to the legacy report if there is data to print. Using these options you can select a text string to search for at the START of a logical row set, and that will end the previous set automatically. |
| ☒ | Finally discovered the reason why some NuVu reporting components were sporadically crashing on certain XP and Windows 2003 machines – especially Hyper-Threaded CPU's. A re-engineering of the 'integer' fill-in field component has now fixed this problem, and all executables that were set to 'run in windows compatibility mode' can now be set back to running in native XP/2003 Server mode. |
| ☑ | Automatically replace any '\n' tokens in text-boxes with physical carriage returns/line feeds, so that formatting of text output is able to be controlled with more precision. |
| ☑ | Enhance the field properties dialog, so that the 'fields' combo-box now contains fields from ALL triggers, instead of just the current trigger. At run-time, the current trigger is first interrogated for the contents of this field. If not found, then all other triggers will be examined for the field. |
| ☒ | Remove 'Height' parameters from the Label and Field property windows, as this should not be a settable option – the system automatically adjusts the height of the objects as per the style, size and name of the current font. Also disable the 'Width' property on these dialog windows if the 'Can set field widths' option on the report properties window is unticked. These same settings are also applied to the multiple object property sheet. |
| ☒ | Fix bug with right-justified fields and labels, which resulted in the object being moved over to the right when the style, font name or font size was changed for the selected object. |
| ☒ | Fix bug with centered fields which resulted in the field being incorrectly placed onto the preview canvas. |
| ☑ | Introduce new trigger property 'Ignore Triggers until down field' that will ignore the detection of further triggers until the down field row has been reached for the current trigger. Very useful for converting forms-based legacy reports that are combining two or more pages of detail onto a single graphical page. |

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| ☑ | Ignore the advancing to a new page if the 'Number of Millimeters' option on the Trigger Properties dialog window is set to zero. |
| ☑ | Add new option to the 'Trigger Properties' window, that provides an option to only repeat this trigger when the current page overflows. Original behavior was to repeat all sections marked as 'repeat on every page' both on page overflow and on forcing new page ('New Page' ticked on the trigger). |
| ☑ | Add new functionality to the NuVu Configuration tool, that now validates the advised Service User/Password with the Windows SSPI interface to check whether the user is valid or not. If the user is found to be invalid, a WARNING is issued, rather than an ERROR, allowing the user to re-advise the User/Password combination. |
| ☑ | New delivery mechanism provided, that allows for the polling of a nominated windows directory (or the Windows Spool Queue for a specified printer). Can optionally also perform the automatic 'rbd_find' and 'rbd_prepare' before sending output to the viewer or directly to the advised printer. The Poll server/service can also be configured so that if no NuVu template is found for a specific report, then the report is analysed to determine if it should be output in Portrait or Landscape, and then the default Portrait or Landscape NuVu template will be called. This ensures that ALL files will be processed. |
| ☑ | Added new feature that will email the default internal email address if any faxes are not successfully sent. This option will attempt to send the email via the 'SMTP' protocol, due to existing Microsoft security settings that require individual confirmation. Such confirmation would prevent the NuVu Fax mechanism from running as a service. Services do NOT allow visual representation of forms and user intervention. |
| ☑ | Add new '-silent' and '-debug' command-line switches to the NuVu 'rbd_preview' tool. The 'rbd_preview' tool is now automatically called with the '-silent' option when invoked from the FTP or POLL servers/services. The '-silent' option guarantees that the 'rbd_preview' tool will not display any error messages or preview window. All errors are written to the 'rbd_preview.log' file located in the same folder as the 'rbd_preview' utility. The name of this log file will be truncated to the 8.3 DOS format (for compatibility reasons). |
| ☑ | Added new feature that allows for the selection of a specified printer bin. This option is available both interactively (from the 'rbd_preview' tool when the 'Print' button is clicked), as well as a new option available from the command-line (to the 'rbd_prepare' utility). This new functionality allows for printing multi-part documents, where the first n pages are pulled from the normal printer tray, and other pages are pulled from alternate trays. |
| ☒ | Fixed bug with the NuVu Fax/Poll and FTP Services, that was automatically inserting a '.\' in front of the advised usercode when installing the services. This caused a problem when the user was part of a defined domain (eg: MyDomain\brian). |

(22 enhancements, 8 bug fixes: Total 254 enhancements, 101 bug fixes)

## Version 3.15 as of 30th January 2004

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| ☑ | Improve the resolution of the placement of NuVu Designer objects, now to a resolution of 1/100th of a millimeter instead of 1/10th of a millimeter. |

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| ☑ | Change default when dropping a new rectangle onto the designer canvas, so that the rectangle is drawn BEHIND instead of in front all other objects. This is consistent with what rectangles are mostly used for – to frame existing text/bitmaps. |
| ☑ | Warn user if the 'Show Email' option is not ticked on the email send screen, and the current method of email is 'MAPI'. This is due to some recipients not being able to read attachments (they are shown as WINMAIL.DAT files). This is a well documented 'feature' of MAPI amongst different flavours of mail client. |
| ☑ | New option to view the generated list of email recipients after a successful email blast, using the default csv viewer (normally Excel). |
| ☑ | Automatically change alignment of fields when F2 pressed to auto-place a field onto the canvas. If the selected text in the legacy report is blank, or does not begin with a space or a '>', then the field is assumed to be left-justified, otherwise the field is assumed to be right-justified. |
| ☑ | Log any drag-and-drop of faxes between the 'Sent', 'Pending' and 'Failed' folders of the fax monitor. This provides an audit trail of why an item is in a specified folder, rather than having the user guess as to what happened to the fax. |
| ☒ | Fixed FaxMonitor so that changes to the contents of the folders and logfile are reflected (ie: refreshed) every second. |
| ☑ | Automatically output a comma-separated (csv) logfile showing all email recipients sent an email during an email blast. The logfile will be located in the 'log' directory residing off the same root directory as the 'rbd_preview.exe' (or 'rbd_freepreview.exe') NuVu preview program, and will have a name beginning with 'Blast' and followed by the system data (yyyymmdd) and time (hhmmss), with an extension of .csv. |
| ☑ | Default the email dialog window to 'All Pages', and set the from/to pages to the total range of pages produced for the current report. |
| ☑ | Introduce tick-box on the Designer Wizard, used to allow or disallow heading details to be output to the canvas during the Wizard operation. |
| ☒ | Fixed Cut/Copy/Paste which pasted the cut/copied objects at the incorrect place on the canvas. |
| ☒ | Fixed Undo count that was not being reset to zero when the undo list was cleared. |
| ☒ | Cut/Copy/Paste of rectangle did not paste the 'Corners' attribute. |
| ☒ | Fixed bug with the designer wizard, that resulted in headings and downfields being positioned at incorrect positions if the vertical scrollbar was scrolled before the wizard was invoked. |
| ☒ | Fixed bug which resulted in the downfields moving to incorrect position when the trigger properties was invoked when the vertical scrollbar was not at its topmost position. |

(9 enhancements, 6 bug fixes: Total 232 enhancements, 93 bug fixes)

**Version 3.14 as of 6th January 2004**

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| ☑ | Introduce new ability that allows MULTIPLE steps to be undone within the Report Designer.  Each step performed within the designer is assigned to its own undo set, and the user is able to choose up to which step needs to be undone, or alternatively clicking the undo button will just undo the latest change to the canvas. |
| ☒ | Redraw the rulers after invoking any dialog window (property sheet, designer options etc), which fixes a display problem with the rulers that occurred when the dialog window overlapped any of the rulers. |
| ☒ | Fix bug with the NuVu Configuration program that complained about an invalid FTP port even if no FTP server was selected. |
| ☑ | Introduce new ability that allows multiple objects to be selected and a 'Properties' window display on right-click of the multiple-selected items. The 'Properties' window can then be used to change any property for all selected items. |
| ☑ | Add new options to Rectangle, Label, Fields, Downfields, Image and Textbox dialog windows, which allow the user to position the selected object exactly on the canvas. The X, Y, Width and Height can now be manually advised, without having to rely on positioning the objects with the mouse. |
| ☑ | Improve the 'Keep Aspect Ratio' logic for Images, so that resizing just one aspect (height or width) will adjust the graphic appropriately. |
| ☑ | Show a Processing dialog during print spooling (Page nn of zz). |
| ☑ | Update the current report title to the spooled reports dialog (windows), so that reports can be easily identified. If the report does not have a title, then 'NuVu Report' is updated instead. |
| ☑ | Split the printing of reports into batches of 100 pages. This facilitates printer jams on large print jobs, where just a section can be reprinted if required. The range of pages is appended to the title of the report in the spooled reports dialog window. |
| ☑ | Store the current window and zoom settings of the preview window in the registry, and restore this setting on next use. |
| ☒ | Fixed extra page if first line does not fire any trigger. |

(7 enhancements, 3 bug fixes: Total 223 enhancements, 87 bug fixes)

## Version 3.12 as of 2nd December 2003

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| ☑ | Introduce new ability that allows the NuVu Designer to either create normal report templates, or Fax Cover Pages. |
| ☑ | Add new options to Rectangle: Link to downfields, and Ignore blank lines if linked to downfields. These options allow rectangles to be drawn on every downfield row, and facilitates the drawing of grids. |
| ☑ | Further improvements to the design Wizard. Users can now advise the actual line that downfields start on, as well as the start and end heading lines. Heading lines can |

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| | optionally be bolded and the last heading line underlined. |
| ☑ | New option on the Graphic properties sheet, to allow the graphic to be excluded when printing (via the p: option of the Previewer). This is useful when pre-printed stationary is being used when physically printing, but if the report is being faxed or emailed, then the image should be embedded in the report. |
| ☑ | New option to disable the emailing of a document. This option is useful on sensitive reports (cheques for example), which should not be able to be emailed and printed on a remote site. |
| ☑ | Introduce new report design feature which moves selected items 10 pixels instead of 1 if the control key is pressed together with cursor keys. Very useful for quick positioning of drawn objects on the canvas. |
| ☑ | New Designer productivity tool. The user may now highlight a selected piece of the legacy report, and then simply click F2 to automatically add the label, field or down field to a calculated position on the designer canvas. The Designer Properties sheet has two new fields (AutoFontSize and AutoLineHeight) which are used to calculate the position at which to draw the object on the canvas. These options default to a font size of 8 and a line height of 4mm, but can be fine-tuned by the user to obtain the optimal results. |
| ☑ | Added shortcuts for popular object drawing buttons:<br><br>• CTRL-T – Selects 'Text Draw' mode (clicked twice for persistent text drawing)<br>• CTRL-F – Selects 'Field Draw' mode (clicked twice for persistent field drawing)<br>• CTRL-D – Selects 'Down Field Draw' mode (clicked twice for persistent down field drawing)<br>• CTRL-B – Selects 'TextBox Draw' mode |
| ☑ | Enhanced the designer tool, so as not to update object position/highlight on legacy report when the mouse moves over a defined object on the designer canvas, unless the current mode = 'Pointer'. This removes the irritation experienced when a user highlights a section of text in the legacy report, then moves the mouse up to the toolbar to select the object type to draw, but passes over a defined object, which selects that object in the legacy report. |
| ☒ | Fixed Faxing problems with Windows XP / Windows 2003 Server |

(9 enhancements, 1 bug fix: Total 216 enhancements, 84 bug fixes)

## Version 3.11 as of 4<sup>th</sup> October 2003

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| ☑ | New icons (XP style) for the Designer and Preview Tool. |
| ☑ | New option on Designer window – Edit the Sample report. Uses Notepad to edit the report and waits for Notepad to be closed down before the sample report is reloaded back into the designer window. This option is very useful in preparing a legacy report for use by the designer Wizard. |
| ☑ | Enhance the 'Report Wizard', which now asks for options before the Wizard |

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| | commences extracting down fields and header labels from the legacy report. |
| ☒ | Fix bug in rbd_prepare which was corrupting the license file when the license was issued for more than a single user. |
| ☒ | Prevent NuVuConfig from validating the user/password of the FTP Service if the FTP Service button is disabled. |

(3 enhancements, 2 bug fixes: Total 207 enhancements, 83 bug fixes)

## Version 3.10 as of 27<sup>th</sup> September 2003

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| ☑ | Introduce new NuVu Fax Monitor, which is available either from the NuVu Program Group, or invoked from the popup menu from the NuVu Fax Server resident in the system tray. This monitor shows all Pending, Failed and Sent fax directories, as well as the contents of the Fax logfile. Drag-and-Drop may be used to move fax requests from each of the three fax directories. Fax parameters may also be modified by double-clicking on the respective fax entry in any of the three fax directory panes. Full on-line help is available from the monitor |
| ☑ | Automatically remove all NuVu Servers and Services and the Fax Printer drivers during the uninstall procedure. Also remove all stored registry entries (after prompting the user) |
| ☑ | Introduce new NuVu Fax Service option, which can replace WinFax Pro as the designated fax server, but also run as a NT service. The Fax Service is installed before user login, and thus can operate independent of user login |
| ☑ | Replaced the menu structure of the NuVu Previewer with a new XP-Style menu structure |
| ☑ | Introduce new NuVu Fax Server option, which can replace WinFax Pro as the designated fax server. The Fax Server is installed to the system tray. |
| ☒ | Fixed GDI resource bug on NT Workstation/Server, which was causing an Access Violation when attempting to print from this O/S |
| ☑ | Include a 'Most Recently Used' drop-down list of report definitions, available from the 'Open' toolbar button on the NuVu Designer |
| ☑ | Replaced the menu structure of NuVu Designer with a new XP-Style menu structure |
| ☑ | Include the 'Zoom 100%,200%,400%' options on the NuVu Designer menu |
| ☒ | Fixed bug in the NuVu Designer, that was not allowing the report to be previewed in PDF format |
| ☑ | Removed all pre-created forms in both the NuVu Previewer and NuVu Designer, and create these in memory as needed. This reduces consumed memory by 30-40%, and reduces GDI memory between 25-35%, depending on Operating System |

(9 enhancements, 2 bug fixes: Total 204 enhancements, 81 bug fixes)

**Version 3.09 as of 2nd September 2003**

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| ☑ | Introduce new functionality within the preview, which allows the static details (rectangles, lines, bitmaps, text and fields) to be repeated when the page overflows. |
| ☑ | Prevent the NuVu Previewer from starting if there is no default printer, as this causes Delphi to crash when there is no default printer installed. |
| ☑ | Introduce a new debug option, which outputs a message dialog window for each message, to pick up timing issues on fast processors. |
| ☒ | Fixed bug in the NuVu Previewer, that was checking for comma as the email address delimiter for MAPI. |
| ☑ | Introduce the NuVu Print Service, a native NT service which replaces the NuVu Print Server offering. The NuVu Print Service is the preferred install for Windows 2000, 2003 Server and XP. |
| ☑ | Enhance NuVuConfig configuration program to include settings for the Fax Service and Email Service. |
| ☑ | Introduce the NuVuConfig configuration program, which is invoked automatically at the end of a normal install, and is also available from the NuVu program group. This utility will install either the NuVu Print Service or NuVu Print Server or neither, depending on user requirements. |
| ☑ | Introduce the ability for the Designer Canvas to be zoomed, either 100% (original size, 200% (double the original size) or 400% (4 times the original size). |
| ☑ | Introduce the ability to create a new canvas trigger, as a copy of an existing canvas trigger. |

(8 enhancements, 1 bug fix: Total 195 enhancements, 79 bug fixes)

**Version 3.08 as of 31st July 2003**

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| ☒ | Fixed a problem under XP/Windows 98 that was causing the NuVu Previewer to freeze up when attempting to fax a document. |
| ☑ | New layout for GetControl license control manager |
| ☑ | GetControl License control manger will automatically notify the NuVu FTP server when products are registered. |
| ☑ | Changed the NuVu Previewer to append all passed parameters into a single parameter – to get around a Window98 / XP problem when double-clicking on an .rbi file that has spaces in the name. |
| ☒ | Fixed a critical memory leak in Windows 98. |

(3 enhancements, 2 bug fixes: Total 187 enhancements, 78 bug fixes)

**Version 3.07 as of 10th July 2003**

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| ☑ | Provide a new property on the Graphics dialog window, which allows the user to specify the actual resolution to assign to the individual images on the preview canvas. The images are still shown in the original resolution on the designer canvas, but are scaled according to the advised resolution on the preview canvas. This setting has a **DRAMATIC** affect on the size of the generated spool file prior to printing (as well as the speed of producing the spool file). |
| ☑ | Graphics are now always drawn on the background, so can be used as watermarks. |
| ☑ | When adding a new graphic to the designer canvas, initially create the graphic with the height and width of the original graphic. |
| ☒ | Fixed a memory leak which was not releasing the memory allocated to drawing graphics under certain conditions. |

(3 enhancements, 1 bug fix: Total 184 enhancements, 76 bug fixes)

## Version 3.06 as of 29th June 2003

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| ☑ | Reduced the image quality from 32 bits to 4 bits (16 colours), to reduce the size of the spooled file. |
| ☑ | Introduce 'Debugging' of the designer and previewer. Advising a parameter of 'debug' will write debug information to a log file (with the same same and directory as the executable being run. |

(2 enhancements, 0 bug fixes: Total 181 enhancements, 75 bug fixes)

## Version 3.05 as of 22nd June 2003

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| ☒ | Fixed 'Access Violation' errors occurring on XP and Windows98 |

(0 enhancements, 1 bug fix: Total 179 enhancements, 75 bug fixes)

## Version 3.04 as of 18th June 2003

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| ☑ | Introduce new feature on each trigger – 'Repeat on each new Page'. This feature will repeat the fields, labels, bitmaps and rectangles (not down-fields) on each new page, which is output as a result of overflow. |
| ☑ | Introduce major new feature – ability to process XML input data. |
| ☑ | Introduce new Field Property 'Format', which allows for very flexible formatting of numeric fields (Eg: %.3m will result in a currency field with 3 decimals). |
| ☑ | Introduce new feature that allows the designer grid to be optionally drawn onto the preview canvas too. This allows the user to determine the overall layout of the report more accurately. |
| ☑ | Provide ability to search the legacy/xml report area for advised text, by pressing the right mouse button.  Once a search has been initiated. Pressing the F3 key will allow |

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| ☒ | for the searching of the next occurrence of the search string when the legacy/xml report area has focus. |
| ☑ | Include an on-line tutorial on how to process XML documents, which is available as a menu option from the report designer, as well as included in the reference manual. |
| ☑ | Disable the 'Page Range' print option if user has chosen 'All Pages' or 'Current Page'. |

(7 enhancements, 0 bug fixes: Total 179 enhancements, 74 bug fixes)

## Version 3.03 as of 17th May 2003

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| ☑ | Enhance the '<NEWLINE>' trigger capability to be able to specify number of logical lines for the section – very useful in producing sticky labels. |
| ☑ | Include 'labelcust.rbd' and 'labelcust.txt' in the installation, as examples of printing labels using NuVu. |
| ☑ | Change previewer and designer tools to be able to work with multiple languages. The saved .rbd files are always saved with '.' as the decimal point. This is interpreted into the appropriate decimal point for the current language at run-time. |
| ☒ | Fix bug which was ignoring 'email' command-line parameters passed to the report previewer. |
| ☑ | Change the 'rbi_decode' debugging utility to handle templates within .rbi files correctly. |

(4 enhancements, 1 bug fix: Total 172 enhancements, 74 bug fixes)

## Version 3.02 as of 13th May 2003

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| ☑ | Provide new 'Custom' paper size, where the user can specify the exact mm values for the width and height of the paper. |

(1 enhancement, 0 bug fixes: Total 168 enhancements, 73 bug fixes)

## Version 3.01 as of 10th May 2003

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| ☑ | Provide a solid color background to the rbd designer window (optionally), so that fields are easier to identify, especially when actual widths are being advised. |
| ☑ | Draw a focus rectangle around all fields so that the exact size of a field is easily determined, especially useful when actual field widths are being advised. |
| ☑ | Modernise and correct the on-line tutorial help and document, to cater for changes and enhancements to the product. |
| ☒ | Fixed bug which was defaulting the value of 'ID Row' to 1 on the report options dialog window if a value of zero (meaning search first 100 lines of report). |

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| ☒ | Fixed bug which was not automatically adjusting the height of a field/downfield when the font size was adjusted and the 'manual width' drawing option was enabled. |

(3 enhancements, 2 bug fixes: Total 167 enhancements, 73 bug fixes)

## Version 3.00 as of 24th April 2003

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| ☑ | Rebuilt executables from Delphi 5 to Delphi 7 – improved speed of execution, stability and robustness. |
| ☑ | New functionality (from the viewer or command line), which allows a report to be automatically split into Fax, Email and Other recipients. The user can choose how to represent the recipients who are not identified as Fax or Email. These recipients can either be viewed (rbi or pdf), printed to nominated printer, saved to .rbi file, or any other allowed destination. |
| ☑ | Added 4 new colors for background and foreground, being 'Money Green', 'Sky Blue', 'Cream' and 'Medium Gray'. |
| ☒ | Fix bug which on the email dialog window, which was attempting to load the body text on each keystroke of the user. |
| ☒ | Fix bug which crashed the email / report blast when there was a comma anywhere in the email or blastinfo area. |

(3 enhancements, 2 bug fixes: Total 164 enhancements, 71 bug fixes)

## Version 2.22 as of 1st April 2003

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| ☑ | Provide a new Rectangle property, which now allows the user to advise the width of the line drawn around the Rectangle (1=thinnest, 9=thickest). |
| ☒ | Fix bug which was causing a report to be printed to multiple printers which matched the name (anywhere in the name of the printer) of the passed printer. Changed to only print to the first printer that matches the passed printer string. |

(1 enhancement, 1 bug fix: Total 161 enhancements, 69 bug fixes)

## Version 2.21 as of 3rd March 2003

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| ☑ | Increase the number of allowed rectangles from 15 to 50 per trigger. |
| ☒ | Fixed bug which prevented a vertical line (rectangle with width set to 0.3) being drawn. |
| ☑ | Include a 'Drag-Zoom' facility within the report preview window. This is actioned by holding down the CONTROL key and then dragging the mouse until the area required to be zoomed into is selected (identified by a dotted rectangle). Releasing the mouse button will then zoom in on this selected area. |
| ☒ | Fixed bug which was putting extra form-feeds into the emailed versions of PDF and RBI files (2nd page onwards), when using the email blast facility from the preview |

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| | window. |
| ☑ | Include the FTP 'PASV' command in the list of allowed commands that are accepted by the NuVu Print Server. |
| ☒ | Fixed bug which was not removing the report instance (.rbi) file after batch processing within the rbd_preview executable. For example, when printing directly to a printer, or outputting to fax, the .rbi file was being left on disk after processing is completed. |
| ☒ | The 'Copies' parameter passed into the report instance was being ignored (ie: always printed a single copy). |
| ☑ | Change the rbd_prepare utility so that the contents of the Fax configuration file is embedded directly within the generated .rbi file. Also change the format of the Fax configuration file so that the CoverText can be advised as separate paragraphs, enclosed within single start/end braces within the Fax Configuration file. |
| ☒ | Removed spaces in graphic files when outputting to PDF to avoid PDF errors when trying to render the images. |
| ☑ | Validate that an email address has been advised, on the email dialog window. |
| ☒ | Do not validate SMTP email options if MAPI has been selected. |
| ☒ | Fixed a few memory leaks with new print engine routines. |
| ☑ | Improved the Wizard logic, which now calculates and sets the font size to accommodate the width of the line being processed. If the font size is less than the current font size, then a confirmation message is displayed before the wizard begins. If the current font size is adequate for the wizard operation, then it will be used (instead of the old font size 8 or 7 logic). |
| ☑ | New enhancement, which allows the user to manually size fields (or downfields) so that exact widths can be advised. The designer does most of the work for the user, sizing objects automatically when they are created, based on the width of the field mapped in the legacy report, as well as the currently selected fontsize. |
| ☒ | Fixed the Export facility from the preview window – v2.18 broke this facility |
| ☒ | The 'Export' menu option on the preview window was not executing the export function. |

(7 enhancements, 9 bug fixes: Total 160 enhancements, 68 bug fixes)

## Version 2.19 as of 2nd February 2003

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| ☑ | Utilize new print engine routines which greatly reduce internal memory usage – avoid the problem when large printouts with bitmaps exhaust available memory. |
| ☑ | Insert warning message if the 'Reset Row Counter' option on the trigger properties dialog is left unticked. There is hardly a time when this option should be left unticked. |

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| ☒ | Fix bug where the internal pagecount was not being incremented if no physical form-feeds are in the legacy report (ie: The appropriate Number-of-Lines per page has been advised to the rbd_prepare tool). |
| ☑ | Validate the Email Name and Email Address on the Email options dialog window. |
| ☑ | Allow either V or D to invoke the viewer (from rbd_prepare.exe). |
| ☑ | Introduce new ability for a report to be automatically faxed to a recipient (using WinFax 10.0 onwards) interactively from the 'Print' dialog window. |
| ☒ | Fix bug which was displaying a dialog window (with message: cannot show a form modally if the form is visible) when attempting a print preview from the designer window. |
| ☒ | Fix obscure bug which was causing a trigger with a value of blanks defined at a particular column to fire inconsistently. This was also causing unexpected warning messages to be displayed when returning from the trigger properties dialog window. |
| ☒ | Fix bug which was NOT attaching the report to email sent via the SMTP mail protocol. Involved showing a processing message while the email was being sent (shown modal so it could not be cancelled). This processing window is ALSO displayed if the email is being sent via the MAPI protocol, as long as the 'Show email dialog' option has not been ticked. |
| ☑ | Introduce new ability for a report to be automatically faxed to a recipient (using WinFax 10.0 onwards) from the command-line. Because of the many command line options allowed when faxing (cover pages, cover text, Company Name, Showdialog etc), these parameters are stored in a separate parameter file and the command line option merely references the appropriate parameter file, which is thereafter opened to retrieve all the settings. |
| ☑ | Introduce new function within the conditional formatting window, called 'convert_date' which allows for a date on the legacy report to be converted to a variety of date formats (see User Reference for more details). |
| ☑ | Added considerable functionality to the conditional formatting ability of NuVu. Added new Attributes 'field(…)' and 'text(…)' which allow for proper concatenation of conditional fields. For example, a condition can now be inserted as per: convert_date(currfield,"dd/mm/yy","mmm 1, yyyy") + text(":") + field(CustNum). |
| ☒ | Fix bug which was causing triggers defined to fire between advised rows NOT to fire at all. |
| ☒ | Fix bug which was causing Access Violation errors to display when attempting an email from the preview window, but only if the preview is running from the designer. |

(8 enhancements, 6 bug fixes: Total 123 enhancements, 59 bug fixes)

## Version 2.18 as of 26th December 2002

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| ☑ | Ability to output PDF format reports when emailing from the viewer. User is prompted on the email dialog window for this option. |

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| | NOTE: The following features are currently NOT supported when outputting PDF:<br>• Rounded Rectangles<br>• Rotated Labels<br>• URL hypertext<br>• Fonts other than Arial, Courier or Times Roman (or derivatives) |
| ☑ | Ability to output PDF format report from the command line (pdf:filename). |
| ☑ | Ability to preview reports in PDF format from the report designer (set via the 'Designer Options' dialog window, chosen from the 'Tools' menu item). |
| ☑ | Ability to display PDF format reports via the command-line (d,pdf option). |
| ☑ | Ability to email reports in PDF format from the command-line (e:emailaddr,PDF option). |
| ☑ | Allow the 'TYPE' command to be accepted by the NuVu Print Server. This allows the application to transfer files in either BINARY format or ASCII format. |

(6 enhancements, 0 bug fixes: Total 115 enhancements, 53 bug fixes)

## Version 2.17 as of 18th October 2002

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| ☑ | Ability to now display a defined margin both in the designer canvas, and on the previewed page (when invoked from the designer canvas by pressing the 'Print Preview' button). This margin is user-definable (left, top, bottom and right margins as well as the displayed color can be manually advised). |
| ☑ | Emailing – Provide emailing of page range, current page or whole report, as per the print option. |
| ☑ | Emailing – Provide ability to load the message body from an advised file. This file should be a text file, with an extension of .txt. |
| ☑ | Provide new executable (rbd_autoinstall) which accepts two input parameters – Hostname and port number. This executable can be executed from a batch file on a central server to auto-install the preview and/or designer on a client PC without having to advise the hostname or port number as these will be hard-coded in the batch file. |
| ☑ | Insert link to NuVu website onto the 'About' boxes of the designer and previewer. Also include the same link on the 'Registration' screen. |
| ☑ | Provide new functionality to display clickable fields (hyperlinks) in the previewer, that will invoke the advised program, mail or website. This is achieved by advising two new attributes in the conditional properties of any field (urltext and urlcommand). The 'urltext' attribute specifies the text to display in the clickable area on the preview window. The 'urlcommand' attribute will contain the website address (URL), Mail address (Mailto: + address) or executable program, plus the relevant parameters. There can be up to 10 of these clickable area's per page (irrespective of the number of triggers). |
| ☒ | Fix 'List index out of bounds' error when performing an email blast. The error was |

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| | occurring when the last recipient in the email blast has a non-blank email address. |
| ☒ | Problem found when a multiple-page email was sent, where the primary trigger was <NEWPAGE>' – was causing all pages to be rendered to a single printer page. |
| ☒ | Clicking the 'Set Defaults' (Banding) button on the report options window within the report designer was ALWAYS overwriting the border and fill colors and the border style to defaults of silver and solid. This now only occurs if the banding was previously turned off (ie: Banding Height was set to zero). |
| ☑ | Make the NuVu Print Server totally secure by restricting the allowed commands to:<br>• Open<br>• User<br>• Pass<br>• Stor<br>• Quit<br>• GetDesignerCode<br>• GetPreviewCode |
| ☑ | Change the NuVu Print Server to be able to be started up with a different port number than the default ftp port (21). This will allow the NuVu Print server to co-exist with other FTP Servers on the same machine. |
| ☒ | Clicking on the 'Re-open' menu option on the designer was not clearing out the previous definition, resulting in both the old and new definitions being 'merged' together. |
| ☒ | The loading of legacy reports into the viewing area of the designer sometimes caused a 'Richedit – error on insertion' error. This only occurs on certain Win95/98 machines which have an old version of the Microsoft rich text control installed into the operating system. To get around this problem, the loading of the legacy report was changed to load all at once, as opposed to a line at a time. |
| ☑ | Major enhancement which now allows the NuVu designer and previewer to be automatically registered by advising a Server Address (IP address or name) when the registration window is displayed. This mechanism will also re-register expired licences automatically (without user intervention). |
| ☒ | The encryption/decryption mechanism for the .rbi files did not handle input reports that had characters with ordinal values higher than 128 (for example, graphic line-draw characters). The designer, previewer and all engines had to be recompiled with this fix. |
| ☑ | Associate the appropriate icons for all previously blank menu options (Eg: Exit, Save-As, Designer Options, About etc) on both the report previewer and report designer |
| ☑ | Introduce new email option, which allows the user to send email via MAPI (the installed email client (for example Microsoft Outlook)) or SMTP (in which case an internal SMTP client will be used to send the email). SMTP is useful if security has been installed on the MAPI client which hinders the sending of multiple emails, but lacks the ability to use the installed address book, and prevents the invocation of the installed MAPI client during individual email sends. |

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| ☑ | Introduce new option on the report options dialog window, where the user can now nominate that the current design is going to be a 'template', for use by other design files. The designer will ensure that only a single trigger exists in the current definition before allowing the 'template' option to be ticked. |
| ☑ | Ask the user when a 'template' definition is saved, whether the changes should be propogated across to all report designs which use the template. If the user chooses to do so, display a dialog window which lists all identified report designs which use the template. Allow the user to de-select any of the designer files, before pressing the UPDATE button to start the propogation operation. |
| ☑ | Introduce ability to hide label (text) objects via the label property dialog window. |
| ☑ | Increase the pause (in milliseconds) between showing of hints (tooltips) from 50 to 100. This avoids tooltips from 'flashing' when moving quickly over the toolbars. This change was made to the report previewer and the designer. |
| ☑ | Provide a new menu item on the 'Help' menu which allows the user to turn off (or on) the showing of tooltips. This has been applied to both the previewer and the designer. The setting is written to the registry, so that it will be remembered between sessions. |

(16 enhancements, 6 bug fixes: Total 109 enhancements, 53 bug fixes)

## Version 2.16 as of 29th September 2002

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| ☑ | Introduce new NuVu Print Server, which now replaces the Denicomp RSH utility. This print server allows a remote server to FTP a prepared .rbi file which will automatically be passed to the NuVu preview engine once the file is received |
| ☒ | The initial statements (prior to the first if statement) in the conditional formatting of a field were being ignored completely |
| ☒ | Bug introduced with 2.15 which was restoring the original settings on the report properties window even if the OK key was pressed. This was preventing new reports from being created. |

(1 enhancement, 2 bug fixes: Total 93 enhancements, 47 bug fixes)

## Version 2.15 as of 23rd September 2002

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| ☑ | Include the 'nuvulogo.jpg' into the Demo and Full install, as this image is now included in the Invoice and Sports001 report definitions |
| ☑ | Only process 2000 lines (approximately 30 pages) from the sample report into the legacy report section of the designer window. This prevents overflowing memory when attempting to load LARGE files. If only part of the sample legacy report is loaded, a message is output, indicating that only 2000 lines have been loaded |
| ☒ | The 'currfield' token was being checked case-sensitive in the conditional formatting section. This was causing problems when the user typed CurrField, Currfield or any combination that was not all lowercase. The field is now automatically converted to lowercase before evaluation |
| ☒ | Ensure that original report properties are restored to the original ones, if the 'CANCEL' button is pressed on the Report Properties dialog window |

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| ☑ | New 'Set Defaults' button on the banding section of the Report Properties dialog window. Clicking this button will automatically calculate the default settings for the banding, based on the downfield values advised on the current trigger (ie: the displayed trigger before the Report Properties button was pressed) |
| ☒ | Change the .Assign procedure call to a manual call to AssignLabelProps (or AssignBoxProps). This fixes a problem with processing conditional statements which was causing the left position of objects to be adjusted incorrectly. This also speeds up the processing of conditional fields due to only selected fields being assigned (instead of all) |
| ☑ | New ability to advise the orientation of the paper on specific triggers. This now facilitates having mixed portrait and landscape pages in a single report (all must be the same paper size however) |
| ☒ | When the 'SAVE' button was clicked on the report preview window, it was saving the report instance verbatim (ie: with all the original parameter settings). This was causing the report instance to be REMOVED from the disk after the first time it is opened (using the 'OPEN' button in the previewer. This has been changed to ensure that the Destination gets saved as 'D' (display), and that the 'DeleteAfterView' option is removed |
| ☑ | Change behaviour of 'New Page after x millimeters on printed page' option (introduced in version 2.09) to now be relative to the bottom edge of the page – this is to be consistent with the banding parameters, and new Mixed Landscape/Portrait options |
| ☑ | Assign appropriate text to alll tooltips on all dialog windows |
| ☑ | Banding on report background – ability to advise Band Style (dotted or solid), Band border color, Band Fill color, Band left/right/top/bottom margins |
| ☒ | Disable preventing selected objects from moving off the canvas, as this was causing problems with objects which are bigger than the displayed designer canvas |
| ☑ | Remove the 'divider' options on the trigger properties dialog window – these are now replaced with 'Banding' options on the report options dialog window |
| ☑ | New 'Label' property for selecting the orientation of the drawn labels – 0 = normal label, 90 = vertical text upwards, 180 = upside-down text, 270 = vertical text downwards |
| ☑ | Ability to process multiple if-then-else statements in the conditional formatting box |
| ☑ | Include the 'installviewer.zip' as part of the FULL installation |
| ☑ | Change the email option to attach the 'installviewer.zip' file (in the install directory) as part of the email (instead of the 'installviewer.exe') |
| ☑ | Validate the existence of the 'installviewer.zip' file if the user chooses to attach the viewer as part of an email |
| ☑ | Allow a second search string (and second stop search string) with AND/OR conditions to be checked before firing a trigger. Note: If the AND condition is included, the second search string MUST be satisfied on the same line as the first search string. There is no such limitation with the OR condition |
| ☒ | When report was being emailed or saved, the 'RemoveAfterDisplay' setting was not being cleared. This caused the report to disappear off disk after an initial view |
| ☑ | Changed installation process to utilize the 'DeployMaster' utility instead of the |

| | 'InstallShield' utility. The 'DeployMaster' utility fixes problems with Windows 98, Windows NT workstation and Windows XP installations |
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(15 enhancements, 6 bug fixes: Total 92 enhancements, 45 bug fixes)

## Version 2.14 as of 1st September 2002

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| ☑ | Ability to accept either bitmap or jpg images for graphic images |
| ☒ | Copy/Paste was not copying the 'dotted' property of rectangles/lines |
| ☑ | Conditional formatting: Handle 'Caption =' to have quoted result field, eg: Caption = "Balance", or Caption = 'Balance' |
| ☒ | The next Condition was being bypassed if single operators were advised (Eg: bold, instead of bold = yes) |
| ☑ | Created an 'email blast' tutorial, and put on Help menu of the Designer. Also updated the NuVu Reference Guide to V2.14 |
| ☑ | Include this change history document in the automatic install, and create an icon for it in the NuVu program group |
| ☑ | Remove the 'divider' options on the trigger properties dialog window – these are now replaced with 'Banding' options on the report options dialog window |

(5 enhancements, 2 bug fixes: Total 77 enhancements, 39 bug fixes)

## Version 2.13 as of 27th August 2002

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| ☑ | Allow outline (border) of rectangles/lines to be either solid, or dotted. This is selected on the rectangle properties window (right-click on rectangle object to invoke) |
| ☑ | Allow for more precise sizing of rectangle objects down to .5mm |
| ☑ | Include left-to-right and right-to-left scissor bitmaps in the Nuvu\Docs directory of the install. These can be used to place scissors on the cut section of remittance advices (invoices etc) |

(3 enhancements, 0 bug fixes: Total 72 enhancements, 37 bug fixes)

## Version 2.12 as of 25th August 2002

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| ☒ | Suppress last form feed on the report if nothing else after the form feed |
| ☑ | Automatic detection and emailing of individual pages where fieldname = emailaddr (activated via the normal email button on the report viewer) |
| ☑ | Include 'invoice.rbd' and 'invoice.rep' in the automatic installer – for demonstration of email blasting |
| ☒ | Export was excluding textbox contents, and was using the Graphic object count instead of the Textbox count |

(2 enhancements, 2 bug fixes: Total 69 enhancements, 37 bug fixes)

## Version 2.11 as of 18th August 2002

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| ☑ | Create rbd_freepreview.exe and rbd_freedesigner.exe which are freeware versions of the NuVu Designer and Preview products, for download off the Web. These versions do NOT require any registration to run, but are crippled so as to be unusable in a production environment. |
| ☑ | Insert a registration process into the NuVu Preview tool, with separate control codes compared with the NuVu Designer tool |
| ☑ | Add new downfield line counter in the report previewer, to handle multiple logical lines better |
| ☒ | When a template was being advised on a new Trigger, the trigger was being positioned occasionally at the incorrect position on the canvas |
| ☑ | Add new Find Trigger text constant '<NONBLANKn>', which will fire the trigger if there are n nonblank characters found (where n is a integer value between 1 and 9, for example <NONBLANK5>) |
| ☑ | Add new Stop Trigger text constant '<NONBLANKn>', which will stop the current trigger processing if there are n nonblank characters found (where n is a integer value between 1 and 9, for example <NONBLANK5>) |
| ☑ | Handle numeric fields with a non-floating sign (eg: -      100.00) |
| ☑ | Store previously processed report lines in a string grid, so that fields can be output with a row reference of < 1 (i.e.: prior to the report row which results in the firing of the current trigger) |
| ☒ | Set value of 'FirstPage' to false once at least one trigger has fired. This fixes a problem where the first trigger is used for first-page parameters but the 'New Page' setting on the trigger was not ticked |
| ☒ | The value of the 'Draw after spacing…mm' field on the trigger properties window was automatically changing to 999 if there were NO downfields on the current trigger |
| ☒ | The fontsize up/down buttons were not connected to the fontsize editbox (so pressing them had no effect) |
| ☑ | Include the noimage, grid20, grid40, the downfield, field and label bitmaps as a resource file, compiled into the designer executable. This prevents problems with loading these bitmaps at run-time, when the start directory has been moved to an arbitrary place, or the actual bitmaps have been moved or deleted |
| ☑ | Add button to the Designer to allow the auto-select of all downfields on the current trigger (useful for moving all downfields together) |
| ☑ | Insert registration process for previewer. Unregistered versions will only be able to view reports (parameter = 'D' only) |
| ☒ | Add Trigger, Delete Trigger and Trigger Properties were disabled when attempting to access these from the main menu bar |
| ☒ | After clicking on 'Delete Trigger', user chooses to abort the deletion of the trigger, but the trigger was being deleted even if the user aborted the operation |

(10 enhancements, 6 bug fixes: Total 67 enhancements, 35 bug fixes)

## Version 2.10 as of 11th August 2002

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| ☒ | An entry was being written to the rbd_find.def file EVERY time the report was previewed from the designer tool |
| ☑ | Do not store the windows pathname in the rbd_find.def file. The rbd_find utility program has also been changed to accept a new parameter, being the directory where the report definitions can be found. This now facilitates the simple moving (or storing) of this definition file on NT or Unix without any change to the contents of the file |
| ☑ | Provide Designer Options which will specify the network repository root directory |
| ☒ | Prevent selected objects from being moved off the canvas with the mouse or arrow keys |
| ☑ | Provide Designer Options to specify the Ruler Track bar style (Solid or Hairline) |
| ☑ | Ability introduced to allow the moving of individual downfields to different positions other than the Starting Ypos and related logical rows. This new feature unfortunately will require older versions of the designer reports to be manually opened and fixed through the designer tool, although a simple load and save should be sufficient in most cases |
| ☑ | Validate the row in the field properties sheet on a downfield before saving, to ensure that it is <= No. of logical rows stored on the trigger properties sheet |
| ☑ | Validate the row on the trigger properties sheet, to ensure that it is >= the highest advised 'Row' of any downfield on the current canvas |
| ☒ | Delete of a trigger did not copy the contents of the canvasses above the trigger just deleted |
| ☒ | Changed toolbar completely to now use Speed Buttons on Panels, instead of the traditional Toolbar. This fixes incompatible COMCTL32 DLL problems with different versions of the Windows operating system |
| ☒ | Removed redundant 'Properties' option on the menu |
| ☑ | Hide the ruler tracking position if the mouse is moved off the designer canvas area |
| ☑ | Show Rulers (optionally) on the left/top of the designer canvas. This option can be enabled/disabled via the 'Designer Options' dialog box. The Rulers also display visible indication of the current mouse position on the canvas |
| ☑ | Change the mouse pointer to a cross-hair when drawing objects. Also change it to a drag cursor if the 'Lasso' button is depressed. Revert back to 'pointer' mode after the related operation has been performed. |
| ☒ | Pressing the Up/Down arrows while at least one downfield object was selected did not reposition all downfield objects properly |

(9 enhancements, 6 bug fixes)

## Version 2.09 as of 4th August 2002

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| ☒ | Dropping downfields when the canvas had been scrolled was still positioning at the incorrect Ypos |
| ☑ | Provide option to go to a new page if within x millimeters from the bottom of the page |

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| ☑ | Allow user to manually position selected downfields with the mouse or arrow keys (or optionally operate like before, where the value advised on the trigger properties window (starting Ypos) will be used to position downfields) |
| ☑ | Show the name of the current object in the Status Bar, and the tool tip |
| ☑ | Position (and select) the text when the text (label) property window is displayed |
| ☑ | Save the current height of the designer canvas into the registry, and restore that position on the next invocation of the designer |
| ☑ | Introduce new 'Design Properties' window, allowing the user to advise the required gridlines to draw on the canvas, the Wizard confirmation for individual fields, and the ability to automatically snap downfields to the value advised on the trigger properties window |
| ☑ | Include the standard grid20.bmp and grid40.bmp images (for grid drawing onto the canvas) as part of the Install shield installation procedure |
| ☑ | Introduce the ability to show gridlines (none, every 20 pixels or every 40 pixels) on the designer canvas |
| ☑ | Ability to draw textboxes onto the designer canvas. These textboxes are also able to have replaceable fields (denoted with @[fieldname]) at runtime |
| ☑ | Introduce new trigger find text, called <NEWLINE> which will fire on each new line read in from the legacy report |

(10 enhancements, 1 bug fix: Total 57 enhancements, 29 bug fixes)

## Version 2.08 as of 28th July 2002

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| ☒ | The designer was not taking the current alignment setting into account when the user manually clicked on the canvas to create a label, downfield or field object. Items were being created left-justified |
| ☑ | Include NT/98 versions of the RSH daemon utility (from Denicomp) in the installshield installation |
| ☑ | Create unregistered version of the designer, but crippled – limited to one trigger only and a maximum number of objects of 30 |
| ☒ | 'starting ypos' field only accepting a maximum of 99.0 – changed to accept values up to 999.0 |
| ☒ | Validate that downfield objects cannot be advised for rows > No. of logical lines (defined on the trigger properties window) |
| ☒ | Align Horizontal must right-align if all selected objects are right-align objects. Also validate that all selected objects are of the same alignment before commencing |
| ☒ | Pasting Labels and Fields when the canvas is scrolled positions the objects incorrectly |
| ☒ | Changing Ypos on Trigger properties window when the canvas has been scrolled positions the down fields at the incorrect position |
| ☑ | Options to have downfield, field and labels selected once or persistently. A single click to select a Label, Field or DownField will revert back to pointer mode after the single creation of that object, double-clicking the Label, Field or Downfield button will set a |

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| | persistent mode, so that multiple objects can be created on the canvas (cancelled by pressing the Pointer button) |
| ☒ | Installshield was attempting to write the autorun.inf and nuvu.ico back to the CD during installation, and causing the installation to fail |
| ☑ | Automatically create a 'Saved' directory during the Installshield installation process |
| ☒ | Cut/Copy/Paste crashed when a rectangle or bitmap was included as one of the selected objects |
| ☒ | When loading a previously saved definition (or clicking on Bitmap, and the standard 'noimage.bmp' cannot be located in the start directory), an error was issued. Changed to now prompt for an appropriate bitmap file, and abort the creation of the object if the user cancels the prompt |
| ☒ | When loading a previously saved definition, an error was issued if the template associated with the report could not be opened. Changed to now prompt for an appropriate template definition |
| ☒ | The advised headings on the individually prompted for fields where not being applied to the canvas during the 'Wizard' process |
| ☑ | Now make advise of the sample report compulsory on the report options dialog window |
| ☑ | Validate advised bitmap, template and sample report filenames exist on disk |
| ☑ | Output temporary .rbi file to local temp directory, with filename of yyyymmddhhsszzz.rbi, where yyyymmdd = current date and hhmmsszzz is current time. This is to ensure users working from a central repository do not overwrite each others .rbi's when previewing |
| ☑ | Convert advised control code to uppercase before validating |

(8 enhancements, 11 bug fixes: Total 47 enhancements, 28 bug fixes)

## Version 2.07 as of 20th July 2002

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| ☒ | Suppress printing of a blank page at the end of the report (when there is a form-feed followed by end-of-file) |
| ☑ | Automatically fill the Trigger Search string and starting column on the Trigger dialog window when a new trigger is added, and the user selects an area on the legacy report |
| ☑ | Automatically convert leading $ to floating $ ($ 999.99 for example) |
| ☒ | The wizard was not unticking the 'Trailing CR' field if alignment was changed to centered or left, resulting in incorrectly placed objects |
| ☑ | Create InstallShield automatic install procedure (Designer plus Previewer) |

(3 enhancements, 2 bug fixes: Total 39 enhancements, 17 bug fixes)

## Version 2.06 as of 13th July 2002

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| ☑ | Provide option to print duplex, and with graphic dither settings |

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| ☑ | New Destinations for rbd_preview: F: = save to file (.rbi), X: = export directly to csv file, E: = email directly to recipient(s) (comma-separated) |
| ☑ | If destination is File (F:) or Email (E:), then change the original .rbi file so that the destination stored within the saved or emailed .rbi is set to Display (D) |
| ☑ | Improved canvas writing performance by factor of 10 (75 pages per second) |
| ☑ | Automatically select and give focus to the 'Find' text when the 'Find' button is clicked on the preview window |
| ☑ | Create Unix versions of rbd_find and rbd_prepare utility programs for the IBM AIX, Sco Openserver, Compaq True64 and Linux |
| ☑ | Automatically fill in the ID String information on the report properties window if an area is selected on the legacy report, and the ID String information is initially blank on the report properties window |
| ☑ | Changed Report Wizard to use the advised 'Starting Row' field instead of searching for the column underlines, unless there are no underlines on the row above the 'Starting Row' field, otherwise search for the column underlines as per previous versions |

(8 enhancements, 0 bug fixes: Total 36 enhancements, 15 bug fixes)

### Version 2.05 as of 5th July 2002

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| ☒ | rbd_preview scrambled the report contents when a form-feed was immediately followed by a space character |
| ☑ | Report Wizard – Now prompts user if individual field properties are to be shown during the import of legacy fields or not. Allows fieldname, alignment, headings etc to be advised during the import |
| ☑ | Automatically convert numeric input fields with trailing signs (Eg: 9999.99-) so that the field will have leading signs (to fix right-alignment issues) |
| ☒ | Printing was hiding any rectangle objects (although preview was fine) |

(2 enhancements, 2 bug fixes: Total 28 enhancements, 15 bug fixes)

### Version 2.04 as of 1st July 2002

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| ☒ | Invoking the preview (rbd_preview.exe) without a valid rbi file will now issue a message and quit the program (instead of raising an exception) |
| ☑ | Created 'C' versions of the rbd_find and rbd_prepare (engine) utilities. This will now allow compilation onto various NT and Unix operating systems |
| ☒ | Automatic associations of rbd_preview and rbd_designer were sometimes being incorrectly assigned |

(1 enhancement, 2 bug fixes: Total 26 enhancements, 13 bug fixes)

### Version 2.03 as of 23rd June 2002

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| ☑ | Direct output to nominated Windows printer without visualising preview window – (Command-line option) |

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| ☑ | Automatically associate .rbd file extensions with the report designer, and allow double-click of any .rbd file to automatically invoke the designer tool |
| ☑ | Automatically associate .rbi file extensions with the report previewer |
| ☑ | Allow the ESCAPE key to close all dialog windows |
| ☑ | Re-position on previously selected field in all property dialog windows |
| ☑ | Introduce rbd_find.exe, which allows for automatic association of template file (.rbd) with report at run-time (using a separate definition file) |
| ☑ | Transparent text now included automatically |
| ☑ | Centering of text now permitted |
| ☒ | Clear the conditions string when pasting a field |
| ☒ | Pasting a field changes alignment to 'Left' |
| ☒ | Pasting a down field when the canvas has been scrolled positions at incorrect row |
| ☒ | If trigger text was found in a column other than the advised column, the system was setting the TrgRow variable to the incorrect row |

(8 enhancements, 4 bug fixes: Total 25 enhancements, 11 bug fixes)

## Version 2.02 as of 2nd April 2002

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| ☑ | Enable space compression in created .rbi file (halves the size of the generated .rbi file on average) |
| ☑ | Optionally suppress printing repeating values in down fields (hiderepeating function) |
| ☑ | Export header fields in downfield section |
| ☑ | Export previous non-blank values (optional) if current occurrence is blank |
| ☒ | End of report check (chr(12)) was breaking the decryption algorithm |
| ☒ | Email was showing as a small window |
| ☒ | When loading definition, when the canvas was scrolled Horizontally or Vertically, the definition was placed at the incorrect position on the canvas |
| ☒ | Functions within Labels were not being set back to their function names after printing |
| ☒ | Selection of Paper Size (A3,A4,A5,A6,B5,C5,Legal and Letter) on report – also resizes the designer canvas with appropriate paper size |
| ☑ | Changes to record current version number consistently in all forms (About, About-Preview, Register screens) |

(5 enhancements, 5 bug fixes: Total 17 enhancements, 7 bug fixes)

## Version 2.01 as of 23rd March 2002

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| ☑ | Suppress empty last pages in the preview window |
| ☑ | Change SMTP email interface to MAPI (standard MAPI client is displayed (eg: Outlook) |
| ☑ | Change Save/Load on preview window to output encrypted RBI files |
| ☑ | Store the version number in the report definitions |
| ☑ | Default first trigger added to be a 'Primary Down Section' |
| ☑ | Ability to change down field to normal field and visa-versa |
| ☒ | Undocumented bugs fixed |

(6 enhancements, 1 bug fix: Total 12 enhancements, 2 bug fixes)

## Version 2.00 as of 22nd February 2002

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| ☑ | Introduce CONCAT function |
| ☑ | Ability to email the report to any email recipient (using SMTP) |
| ☑ | Introduce FIELD(fldname) function for export label |
| ☑ | Introduce CAPITALISE function |
| ☑ | Introduce LOWERCASE function |
| ☑ | Introduce UPPERCASE function |
| ☒ | Undocumented bugs fixed |

(6 enhancements, 1 bug fix: Total 6 enhancements, 1 bug fixes)

## Version 1.00 as of 1st March 2001

- First commercial release