

## X9Ware LLC Announces X9Assist R5.01 with Numerous Improvements

X9Ware LLC is pleased to announce the general availability of Release 5.01, which includes enhancements to our X9Assist suite of desktop tools, our X9Utilities command line tool, an updated SDK, and the X9.37 TiffKit.

X9Assist R5.01 introduces several enhancements. The Items tab now features separate columns for debit and credit amounts. This improvement not only provides a visual representation of debits versus credits on the Items panel but also proves valuable when exporting the table to Excel. The Field Viewer has undergone a change as well, using alternate shading instead of bullet characters to indicate leading and trailing blanks within a field value. This new design offers a clearer understanding of the field's content and the location of blanks within it. Additionally, the Record Feedback area at the bottom of the main panel has a new layout that utilizes vertical markers every ten columns within the record area, making it easier to identify field positions. Lastly, Make/Generate introduces a new reformatter which is specifically designed for printing out-of-file forward presentment original IRDs.

ACH support is improved. Reversals can now automatically modify an offsetting amount when generating reversals for a subset of items using a filter. Existing reversal batches are identified and excluded to prevent duplication. Error messages for invalid ACH record lengths have been enhanced for better clarity. The Hex Viewer now displays CRLF separators and the pad records that appear at the end of ACH files.

One notable X9Assist improvement is enhanced multi-monitor support. Now, when dragging dialogs to a secondary monitor, they automatically resize to fit the screen, which is particularly useful when the target monitor has a smaller size. Similarly, file choosers adapt to monitor size, ensuring optimal functionality, especially when using a secondary monitor with smaller dimensions. We have made changes to ensure that popup messages and queries are displayed on the monitor associated with the current dialog. While we continue to work on enhanced multi-monitor support, this is a substantial step forward.

X9Utilities now offers batch processing capabilities, enabling commands to be executed at the folder level, rather than just at the file level. For example, the "scrub" command can now be executed on an entire folder instead of a single file. This functionality is achieved using a "model" command with wildcards to create a list of commands for execution. These commands are then grouped and processed from background threads.

Further enhancements have been made to X9Utilities. The new "-draw" function allows independent drawing of TIFF images from the writer, making them available for other processing purposes such as archival. Paid stamp boxes are now optional and can be filled with white space before drawing. The writer function now supports the creation of both 200 and 240 DPI files. Additionally, the "split" command provides an easy way to create output file segments based on the MICR OnUs account number.

The X9Ware SDK has been updated, incorporating many of the aforementioned changes into the base product. Additionally, we have migrated all our date-time logic to the Java LocalDate and LocalDateTime, utilizing our new X9DateTime class. This eliminates our use of the older java.util.Date. API changes are straightforward, which should minimize impact to SDK applications that used our previous X9Date class.

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### About X9Ware LLC

X9Ware LLC ([www.x9ware.com](http://www.x9ware.com)) provides extensive tools for users of the x9.37, ACH, and CPA005 file formats. The product line extends from a free viewer to a suite of tools that include validate, modify, delete, make, generate, scrub, import, export, compare, merge, print, repackage, and numerous other functions. X9Ware LLC strives to provide the best tools in the industry and offers consulting services based on our 35+ years of industry experience.

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