

## X9Ware LLC Announces X9Assist R3.08 with IQA and ECI Detection Improvements

ST. LOUIS, Missouri (August 7, 2017) - X9Ware LLC announces the general availability of Release 3.08 for X9Assist (our Check21 image exchange desktop tool), X9Utilities (our command line tool), and the SDK (our Java software developer's kit). Please write to [x9assist@x9ware.com](mailto:x9assist@x9ware.com) to obtain an evaluation for any of our products.

A new detection facility for Electronically Created Items (ECIs) has been added to our image quality tools. These enhancements now include the ability to set IQA parameters from the tool bar and the ability to create filters for those items that are either IQA failures or ECI suspects.

Check formats (image templates) have been moved into their own xml folder which allows them to be maintained separately. This has several advantages, since user applied modifications can be further isolated and the last modified date now applies to each individual check format.

Print Image has been enhanced to now interface to the Microsoft XPS viewer which provides an improved viewer tool which can be used to browse page output before it is physically routed to a printer. The new viewer has improved functionality for page level zoom and multi-page (thumbnail) viewing.

Export has two new export formats which allow an x9 file to be exported into either a fixed column or variable column format. The fixed column format parses each item into a standard format (by logical field) which makes item data much easier to process in user written applications or when importing the CSV file into Excel. The variable column format combines all record types for a single item (eg, 25, 26, 28, 50, 52) into a single CSV row, which simplifies the subsequent application logic that is needed to parse the created export file.

A complete list of R3.08 enhancements is as follows:

- Check formats (templates) now have individual xml files for easier maintenance.
- IQA parameters can be adjusted when IQA from the toolbar.
- IQA now creates a filter list of all items which have failed image quality tests.
- New electronically created items (ECI) detector with a filter list for review.
- Item Viewers set IQA pixel density color to further indicate image pass or fail.
- Item Viewers include the current item number in the title bar.
- Find Next eliminated with filter browsing provided solely within the Item Viewer.
- Make "Excluded Rows" renamed to "Error Rows" with the error count in the tab title.
- Make use case example (depositFile) improved and changed to Excel xlsx format.
- Make/Generate has new business4 template as a toner friendly version of business3.
- Make/Generate can populate cash letter header returns indicator for ICLR x9.100-187.
- Make/Generate can populate payor account name in the type 33 returns addendum.
- Make/Generate squeezes blanks one at a time within excessively long micr lines.
- Generate has a new View button which shows its input csv file (eg, from Make).
- Create ICL/ICLR has improved conversion capabilities between x9.37 and x9.100-180.
- Export has a new csv item format parsed into fixed columns and with/without images.
- Export has a new csv record group format which is stringed for easier user parsing.
- Print Image interfaces to the Microsoft XPS viewer with improved zoom and thumbnails.
- Repackage can process an x9 with multiple logical files (more than one file header).
- Split panels have a more visible divider that are easier to grab for resizing.
- The GUI now defaults to Windows Classic with Cross Platform available through program options.
- R26/R28/R32/R38sequenced edit rules are replaced with a new more generic "sequential" rule.
- SDK supports silent print to a targeted printer and optionally as print-to-file. x9 files.

### About X9Ware LLC

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

**Contact:**  
Lowell Huff  
[Lowell.huff@x9ware.com](mailto:Lowell.huff@x9ware.com)  
314-580-3465