

# X9Validator: Your x9.37 support tool

## X9 Validation

- x9.37
- x9.100-187-2008
- x9.100-187-2013
- x9.100-180-2006
- UCD 2008
- UCD 2013
- CPA-015
- FRB
- SVPCO
- ViewPointe
- Endpoint Exchange

## Check Viewer

- Front/back viewer
- Zoom viewer
- Hex viewer
- Flip images
- Copy to clipboard
- Export data
- Export images

## Capabilities

- Browse
- Validate
- Find/Filter
- Report/Print
- Modify
- Repair
- Export

## Reporting

- Cash letters
- Bundles
- Items
- Errors

## Licensing

- Single user
- Solution Pack (5 seats)
- Unlimited

**X9Validator** builds on our X9Vision product with additional tools to validate the content of x9 files per all commonly used industry standards. X9Validator also provides functions which allow you to modify the contents of x9 data fields. Export capabilities allow both data and images to be exported to external files.

**X9Validator** is applicable to all users of the x9 file formats that need file validation functionality to determine if their files meet specific industry standards. This includes financial institutions, corporate users, and third party processors.

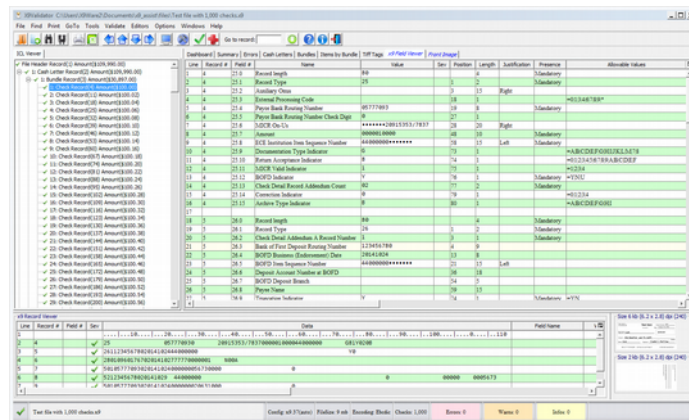
**X9Validator** provides support functions which will Validate, Modify, Repair, Export, and Report against your image cash letter files. Validate is a very powerful tool which applies appropriate validation rules at the record and field levels, per established x9 industry standards. The x9 specification which is applied can be automatically or explicitly assigned, including the validation of TIFF images against the x9.100-181 standard. Errors are identified and summarized based on severity and frequency.

Do you use x9 files on a regular basis? You should evaluate **X9Assist** and experience the full range of functionality offered by our most extensive x9 desktop application.

**Validation** is applied to the x9 data content as well as the associated tiff images. Predefined validation rules are provided for all common x9 industry standards. For x9 data, these include x9.37, x9.100-187, x9.100-187+UCD, x9.100-187+CCD, FRB, SVPCO, ViewPointe, and Endpoint Exchange. For image data, validation is provided for base x9 tiff requirements as well as the more advanced x9.100-181 image standard, including EOFB image segment indicators. All validation rules are completely configurable and extendable through XML definition files.

**Modify** allows data within individual x9 record fields to be assigned new values. All x9 validations are applied within the editor as individual as individual fields are modified. The delete function can be used to remove single records, groups of records, or entire bundles. Images can be replaced with customizable "missing image" documents. Trailer record totals are automatically adjusted per the newly entered values. An internal log is maintained of all modifications. This log can be used to both review and revert any or all modifications prior to the file actually being saved. The modified data can be saved to a new x9 file name of your choosing once all revisions have been confirmed. The modification log can be exported.

**Repair** applies automated repair operations against an x9 file that has "issues". This automated repair process addresses many of the common data and image errors that are found within x9 files. Repair can be broad based to the entire x9 file, can be restricted to specific x9 record types, or can be targeted and limited to specific x9 fields. These automated repair actions have been carefully designed to maintain the original financial content of



the file and only change technical data tags which may be incorrect but whose original intent can be clearly determined.

**Print** allows our standard text reports to be generated, viewed, and printed. Reports can be created for cash letters, bundles, items by bundles, error summary, error detail, x9 record types, and tiff tag summary. You can also print the log of all changes made through Modify. Reports are generated in HTML format and can be easily exchanged with others as needed..

**Export** allows data and/or images to be easily exported in an external format such as CSV, raw text, or XML. These export data files can be analyzed by your internal tools or used as the basis to allow the data to be reformatted and routed to your back end systems. The same philosophy applies to the ability to export images to external files and folders.

**Excel Exporter** allows you to export all of our standard reports directly to MS-Excel or your compatible spreadsheet tool. This is a great facility which allows you to further analyze, save, or share the results of any X9Validator run. Once exported to Excel, you can then reformat the validation results, sort them on specific columns of your choosing, apply your own calculations if needed, and print your appropriate results.

**Mapping tools** allow you to identify which x9 validation rules are automatically applied to your x9 files based on header record content. You can also provide rules at the origination and destination routing level that will be saved and automatically applied to all future file validations.

Please visit our website at [x9ware.com](http://x9ware.com), or send inquiries to [x9assist@x9ware.com](mailto:x9assist@x9ware.com). We have the x9 experience to meet your specific needs.