



## X9 VIEWER

# X9 VIEWER®

**A Windows .NET-based application to identify and resolve textual interoperability and data integrity issues in Image Cash Letter (ICL/X9.37) files**

Financial institutions are ramping up production volume of Image Cash Letters (ICLs). A production X9.37 file can routinely contain 30,000 check images or more and can be well over a gigabyte in file size. One "bad" item can stop the reception, transmission, or processing of a multi-million dollar Image Cash Letter.



**ICLs contain two data types:**  
images and textual information.

The textual information is in the form of Records and Fields that describe in detail the check images and the information contained in the check images. This textual information has to be formatted precisely, based on detailed companion documents that are issued by the destination institutions such as the Federal Reserve Bank, SVPCO, and major financial institutions. X9 VIEWER can help ensure error-free interoperability with your exchange partners.

### BENEFITS

- Saves time by combining check image and text viewing/editing in a single window
- Maximizes efficiency by supporting most ICL variants
- Improves accuracy by automatically rebalancing totals and item counts after edits
- Provides convenient text file import and export for integration with legacy applications
- Analyzes and highlights errors quickly even in large ICL files
- Limits edit access to ICL files via software license
- Provides command line control for programmatic access
- May be called from an external process to generate an issues report file or to create a new file by using selection rules from the command line

### X9 VIEWER FUNCTIONS:

- View check images from a variety of ICL formats
- View textual information in Records and Fields
- Analyze textual information for syntactical conformance to standards and companion documents
- Edit Record and Field data and auto rebalance totals
- Search, find and select data
- Print IRDs
- Secure logging and audit feature tracks users and changes to ICL files

### X9 VIEWER USES:

- Complete or correct data in forward and return ICL files
- Generate test data
- Accelerate ICL qualification process
- Research items and issues in ICL files

**X9 VIEWER FEATURES:**

X9 VIEWER provides several licensed variations that allow viewing alone or the addition of analysis, editing, and IRD printing of the data components of ICL/X9.37 files

FEATURE PACKAGE ▶	X9 VIEWER Free	X9 VIEWER with Analyzer	X9 VIEWER with Analyzer/ Editor/Printer
View front & back check images	Front Only	✓	✓
View ICL file contents such as item detail, bundle information, structure, control records		✓	✓
Tests conformance with DSTU X9.37-2003		✓	✓
Tests conformance with Universal Companion Document (UCD) with FRB, Viewpointe, Endpoint and SVPCO variations		Optional License	Optional License
Automatic detection of UCD or X9.37 file formats		Optional License	Optional License
Highlights errors in red		✓	✓
Search and Find items by routing number, account number, date, dollar amounts, etc.		✓	✓
Deposit Record 61--Multiple Formats		✓	✓
Secure audit trail log for users and file changes			✓
"Lights Out" processing from within an external process using command line programming			✓
Search & select by rules, such as, all items greater than \$10,000			✓
Edit selected record fields			✓
Find and/or replace record fields including routing numbers, dates, amounts, etc.			✓
Automatic recalculation of totals after edits			✓
Delete and save selected items into new ICL files			✓
Load/Save as text with TIFF image files for: <ol style="list-style-type: none"> <li>1. Export to legacy applications</li> <li>2. Edit/correct data, then reload into X9 VIEWER</li> <li>3. Save checks as individual image files</li> </ol>			✓
Print Image Replacement Documents (IRDs) by item, bundle, cash letter			✓

**RECOMMENDED SYSTEM REQUIREMENTS**

Operating System: Windows 7, Vista, XP Pro, 2000 Pro, NT, Windows Server 2003, Server 2008, .NET 2.0 installed, CPU Pentium 4.2GHZ, 2 GB RAM

**FLEXIBLE LICENSING**

Licensing for single user, single desktop. Server licensing available.

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