

X9Assist: 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

Capabilities

- Browse
- Validate
- Find/Filter
- Report/Print
- Modify
- Repair
- Make/Generate
- Scrub
- Import/Export
- Image Print
- IRD Print
- Compare\
- Clone
- Repackage
- Duplicate Items

Test File Creation

- ICL or ICLR
- Virtual Images
- Excel/CSV input
- Your Use Cases

Reporting

- x9 field errors
- Tiff image errors
- Export to Excel

Licensing

- Single user
- Multiple users
- Unlimited
- Private Label

X9Assist builds on our X9Vision and X9Validator products with additional tools to increase the productivity of your production support, testing, and development teams.

X9Assist provides a series of integrated tools to dynamically create image test files from your defined use cases, and obfuscate customer data on production x9 files used for testing. Numerous other tools are provided to perform complex operations against your x9 files.

X9Assist is applicable to all users of the x9 file formats that must minimize use of production x9 data in their test systems (especially applicable to banks, credit unions, corporate users, and third party processors).

X9Assist provides support tools which dramatically improve your ability to create test files for your image capture and associated downstream applications. These tools will create x9 image test files from your use case requirements, where the x9 data matches their associated images. **X9Assist** can also mask customer data on existing x9 production files, so they can be freely utilized within your testing environment.

Powerful tools allow you to **Search, Make, Generate, Scrub, Import, Export, Compare, Clone, Repackage, Merge** and **Print IRDs** from x9 files. Using these tools, you can easily create x9 files from your MICR line use cases where the images are dynamically drawn from configurable check artwork and fonts. These tools allow you to build x9 test files without scanning or capturing a single item! By generating x9 test files, you can resolve the complex x9 related testing issues that are demanded by your Internal and External Auditors per management and regulatory requirements.

Do you support a complex x9 environment? Then you need **X9Assist**.

Search provides string level search and replace functions at a record and field level. All changes are logged and can be individually reverted.

Make is a data transformation tool which creates test items from your use case files. Input can be in one of several formats, with the easiest being MS Excel (XLS) worksheets. Make uses reformatter to translate your use case files into to the standard format required by Generate. Make has 40+ item level attributes that are used to define the data and image fields associated with a detail item and its BOFD endorsement. The output from Make feeds Generate. Make and Generate can also be run in a single step as a powerful data creation tool.

Generate is a powerful x9 file creation tool with input that can come from a variety of sources, with the easiest being Make or Export. Input defines the items (checks) to be created. Generate creates headers, trailers, and bundles from specific parameters. Generate dynamically draw sthe check tiff images from the x9 data (record types 25, 31, and 61). Check images are configurable including artwork, size, and fonts. Generate output is a complete x9 file where the x9 data matches the tiff image content.

Scrub removes all customer proprietary information from an x9 file such that you can use it for testing or share it with others without confidentiality concerns. A variety of fields with the check data can be scrubbed. New images are created to match the scrubbed MICR data, with the option to retain the original MICR line. **Your auditors will appreciate**

Line	Record #	Field #	Name	Value	Len	Position	Length	Justification	Presence	Allowable Values
1	25	1	Record Type	25	3	1	3		MANDATORY	
2	25	2	Image Length	100	3	4	3		MANDATORY	
3	25	3	Image Type	01	2	5	2		MANDATORY	
4	25	4	Image Processing Code		3	7	3		MANDATORY	01-04, 08*
5	25	5	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
6	25	6	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
7	25	7	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
8	25	8	Account	0000010000	10	20	10		MANDATORY	
9	25	9	Account	0000010000	10	20	10		MANDATORY	
10	25	10	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
11	25	11	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
12	25	12	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
13	25	13	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
14	25	14	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
15	25	15	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
16	25	16	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
17	25	17	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
18	25	18	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
19	25	19	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
20	25	20	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
21	25	21	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
22	25	22	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
23	25	23	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
24	25	24	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
25	25	25	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
26	25	26	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
27	25	27	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
28	25	28	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
29	25	29	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
30	25	30	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
31	25	31	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
32	25	32	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
33	25	33	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
34	25	34	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
35	25	35	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
36	25	36	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
37	25	37	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
38	25	38	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
39	25	39	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
40	25	40	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
41	25	41	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
42	25	42	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
43	25	43	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
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46	25	46	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
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49	25	49	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
50	25	50	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
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55	25	55	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
56	25	56	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
57	25	57	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
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60	25	60	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
61	25	61	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
62	25	62	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
63	25	63	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
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65	25	65	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
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67	25	67	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
68	25	68	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
69	25	69	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
70	25	70	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
71	25	71	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
72	25	72	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
73	25	73	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
74	25	74	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
75	25	75	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
76	25	76	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
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78	25	78	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
79	25	79	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
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81	25	81	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
82	25	82	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
83	25	83	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
84	25	84	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
85	25	85	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
86	25	86	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
87	25	87	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
88	25	88	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
89	25	89	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
90	25	90	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
91	25	91	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
92	25	92	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
93	25	93	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
94	25	94	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
95	25	95	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
96	25	96	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
97	25	97	Image Bank Routing Number	001779903	9	10	9		MANDATORY	
98	25	98	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
99	25	99	Image Bank Routing Number Check Digit		1	19	1		MANDATORY	
100	25	100	Image Bank Routing Number	001779903	9	10	9		MANDATORY	

Please visit our website at x9ware.com, or send inquiries to x9assist@x9ware.com. We have the x9 experience to meet your specific needs.