

CU*ANSWERS REVIEW OF SAGE DIRECT'S DISASTER RECOVERY TEST

EVENT DATE: 10/24/2025

SUMMARY

As part of a robust business continuity program, CU*Answers regularly assesses the preparedness of key vendors who provide critical business services and supplies. This includes the audit and review of vendor disaster recovery plans and testing programs. This report reflects the most recent annual recovery test performed by Sage Direct, LLC.

On October 24, 2025, a recovery test was performed at the Sage Direct secondary (DR) location. The process and procedures were observed by William Alsover (CU*Answers Data Center Operations) and Patrick Schumaker (CU*Answers Business Continuity Coordinator). A key objective of these tests is to confirm the capabilities of Sage Direct to fulfill service obligations in the event of a significant disruption at their primary production facility.

Daily notices, member, credit card, and mortgage statement files were generated and securely transmitted for testing by the CU*Answers Ops Engine Data Center to servers at the Sage Direct recovery site, located within the US Signal data center in Kentwood, MI. The files were processed for printing at US Signal and then securely transmitted to their alternate print service vendor, Extend Your Reach, located in Lansing, MI.

The following sections identify challenges observed, lessons learned, and recommendations for consideration related to this recovery event.

EVENT REVIEW

The Sage Direct continuity and recovery strategy includes three facilities:

Main office and primary production facility (IT and Printing):
3400 Raleigh Dr. SE
Grand Rapids, MI 49512

The vendor maintains a colocation agreement with US Signal to host their redundant servers in the Kentwood data center and the provision of workspace if needed during a recovery effort. The data center houses computer systems and networking equipment owned and managed by Sage Direct to receive, process and transmit data files to and from clients.

Disaster Recovery Site (IT only):
US Signal Data Center – Grand Rapids East
4765 Barden Ct.
Kentwood, MI 49512

The vendor maintains a contractual agreement with Extend Your Reach for emergency printing services in the event of a disruption to normal production at the primary production facility.

Extend Your Reach facility (Printing, Inserting, and Mailing):
4908 Contec Dr.
Lansing, MI 48910

This disaster recovery test proceeded as follows:

- The statement and notices test files were encrypted and sent via secure FTP to the recovery site prior to the beginning of the exercise by Ops Data Center personnel. Please note that Sage Direct is in the process of moving to a cloud-based SFTP solution. This was not quite ready for this year's scheduled DR test, but we will look to include it in future testing.
- Participants Jennifer Zimelis (Sage Direct), Karlton Grey (Sage Direct), Patrick Schumaker (CU*Answers), and William Alsover (CU*Answers) arrived at US Signal at 9:00 AM ET and met with Sage Direct's chief liaison with US Signal, James Mucci.
- The test files were decrypted, processed, re-encrypted and then securely transmitted to the servers at Extend Your Reach for printing. James Mucci went over the verification and transmission processes of each file type with the participants in the DR exercise.
- After discussing the processes in detail in the designated conference room, Jim Mucci escorted some of the participants to the actual physical server owned by Sage Direct in the US Signal Data Center.
- Participants arrived at the Extend Your Reach production facility in Lansing at 11:06 AM ET.
- From the processed test files transmitted, a sample of daily notices, mortgage statements, member statements, and credit card statements were printed, folded, inserted into envelopes, and sealed.
- The test concluded around 12:15 PM ET.
- For confirmation purposes, several print proofs and production result samples of printed, inserted, and sealed statements were retained by Sage Direct for their own recovery test records. The remaining test samples were destroyed, and statement data file(s) purged.

OBSERVATIONS

- The location of the Sage Direct recovery site inside the US Signal data center provides enhanced physical security capabilities, including:
 - Retinal scanners installed at each ingress point between security zones.
 - During the test, Sage Direct staff demonstrated retinal access to the various parts of the building.
 - Test participants without access were required to sign in electronically and were escorted throughout the duration of the test.
 - Interior doors are configured so that the next will not open until the former is closed (man trap).
 - Enhanced perimeter security by fully encompassed gate with telecom to gain access to the parking lot and building.
- Sage Direct uses an enterprise data backup solution to archive all software and routines used for financial document processing. If needed, this back up would be restored on new hardware to be able to perform data processing functions.
- Physical security at the Extend Your Reach (EYR) facility included proper visitor sign-in and badging. Participants were always accompanied by an EYR employee throughout the test.
- EYR provided adequate proof of sufficient (rotated) inventories of paper and envelopes on site for use in the event of a disruption at the Sage Direct primary production facility. Note here that Sage was required to bring the correct envelopes needed for the DR facility due to window specifications.

CHALLENGES

None. Very little has changed procedurally since the last recovery test performed in October 2024. Test observers worked with the same personnel at both US Signal in Grand Rapids and Extend Your Reach in Lansing as in the previous test.

The entire DR exercise completed in three hours and ten minutes which mirrors the timeline of the previous test executed exactly a year to the day on 10/24/2024. The relationship built over the years of regular testing has resulted in familiarity of the requirements for processing CU*Answers documents. This allows Sage, EYR and CU*A teams to take such steps to maintain or even reduce the amount of time required in future recovery efforts, whether planned or unplanned.

STATEMENT PROCESSING AGREEMENT

A primary objective of each recovery test is to confirm the following requirements from the 'Statement Processing Agreement' between Sage Direct and CU*Answers, including:

1. Sage Direct warrants that they will ship within two weeks of a catastrophic event.
 - a. Based on test results, there is no evidence to suggest that the Sage Direct would be unable to meet this requirement.
2. Sage Direct warrants the ability to receive and decrypt statement and notice data using SFTP protocol.
 - a. Secure file transmissions have been tested successfully during multiple tests.
 - b. The files used for the test were sent securely via SFTP protocol to both US Signal in Grand Rapids and to EYR in Lansing.
3. Testing will "ensure that the disaster recovery service will satisfactorily handle the current CU*Answers processed volumes." This is to include details for onsite processing capabilities as well as material sources (paper, envelopes, etc.).
 - a. The data processing and printing capabilities (including raw material inventories) at the primary, alternate print facilities (EYR), and envelope vendor's warehouse meet and/or exceed the requirements of CU*Answers.
4. Minimum 12-month testing cycles.
 - a. The previous test was performed in October 2024, placing this test within the agreed upon 12-month schedule timeframe.
5. CU*Answers has the right to audit and visit the site accompanied by a Sage Direct employee.
 - a. As noted earlier in this report, both the recovery site and their alternate vendor site have been reviewed for production capability and security.
6. Sage Direct follows appropriate procedures to always maintain confidentiality of data.
 - a. Proper security controls were observed as part of this test.



DISASTER RECOVERY TEST

Date: 10-24-25

Person completing form: Karlton Gray, Plant Manager

Sage Direct LLC's (Sage) United States Postal Service Status:

Enterprise Payment System (EPS)

Mail Anywhere

Seamless

Data Processing Location:

Sage's Disaster Recovery (DR) Co-location

US Signal

4765 Barden Ct SE

Grand Rapids MI 49512-5406

Print and Inserting Location:

Extend Your Reach (EYR)

4908 Contec Drive

Lansing MI 48910-7101

Attendees:

Sage: Karlton Gray, James Mucci, and Jennifer Zimelis

CU*Answers: Will Alsover and Patrick Schumaker

EYR: Charlie Bahl and EYR's Production Team

Files transmitted to Sage's DR server on 10-22-25 from CU*Answers:

Statements: STMFLAT01_ZIP.msg

Credit Card: STMFLCC_ZIP.msg

Mortgage: STMFLMTG_ZIP.msg

Daily Notices: NOTICES_ZIP.msg

Files transmitted to EYR 10-24-25 from Sage's colocation:

Statements: CUASmtR1dr_2025.pdf

Mortgages: MortgageR1dr_2025.pdf

Daily notices: NoticeSmtR22dr_2025.pdf

The statement file contained householded credit card statements.

In a DR occurrence, data files transferred to Sage are processed by Sage's Data Center employees, output in finished PDF documents, then transferred to the DR print vendor to print, insert, and mail.



DISASTER RECOVERY TEST RESULTS

Printing:

- ✓ To and from dates on all statement types are correct.
- ✓ The number of pages shown on the statement match the number of pages printed.
- ✓ All address lines show name, address, city, state, and zip.
- ✓ Account numbers and member's name are identical on all statement pages belonging to the same member.
- ✓ The tray and pallet numbers are present.
- ✓ The print is clear and readable.
- ✓ The 2D barcodes are clear, clean, crisp, and readable.
- ✓ Intelligent Mail Barcodes are present and meet postal specifications.
- ✓ The correct paper is being used.
- ✓ The Statement detail is checked for irregular characters in the detail lines.
- ✓ The logo and return address image file is the correct file for each credit union being printed.

Inserting:

- ✓ Sage's #10 window envelopes are used for the test.
- ✓ The Mail Run Data File (MRDF) number in the address block are identical on all statements inserted into the same envelope.
- ✓ The address block placement shown through the Sage envelope window meets postal specifications.
- ✓ All envelopes are sealed properly.
- ✓ Quality control EYR employees showed Sage and CU Answers that the documents in the envelopes are inserted correctly.

Comments:

- Documentation is available containing US Signal's physical and cyber security controls and made available upon request.
- EYR is SOC 2 Type 2 certified.
- EYR's 2D sequence barcode prints in the address block of the first page of the first statement in the statement packet. This barcode shows through the envelope's window and is read by the inserting camera system making sure all statement's sequence numbers are accounted for and in numeric order.
- The data processing commingles all page groups, creating mailings per document type.
- EYR demonstrated what happens by intentionally creating the following conditions:
 - A page of the statement is pulled from the statement packet.
 - A page of one member's statement is inserted into another member's statement.
 - A statement is pulled from the belt causing the sequence numbers on the statements to be out of order.



- In all demonstrations, the inserter stopped, the error was identified on the monitor, and the operator reconciled the error.
- Audit totals captured from CU*Answers' input files are reconciled throughout the workflow process. This ensures the data was processed in its entirety, and all statements were printed and inserted.
- Inserted statements are shredded at Sage's site and data files are deleted from EYR's servers.
- Sage's quality controls were discussed with Will Alsover and Patrick Schumaker.

Signature:

A handwritten signature in dark ink, appearing to read "Keith Gray". The signature is fluid and cursive, with the first name "Keith" and last name "Gray" clearly distinguishable.

Plant Manager
Sage Direct LLC