

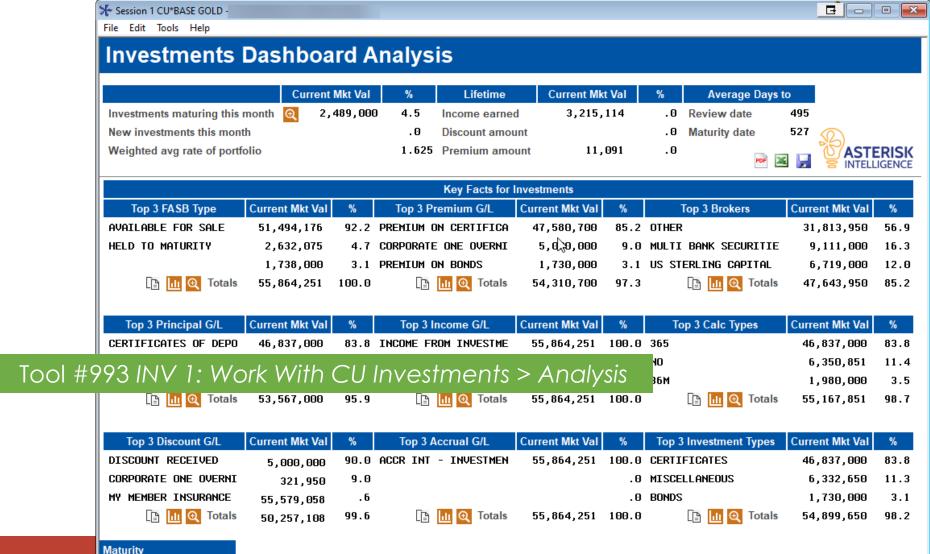
APRIL 30, 2021



What Have We Been Up to Over the Last 2 Years?

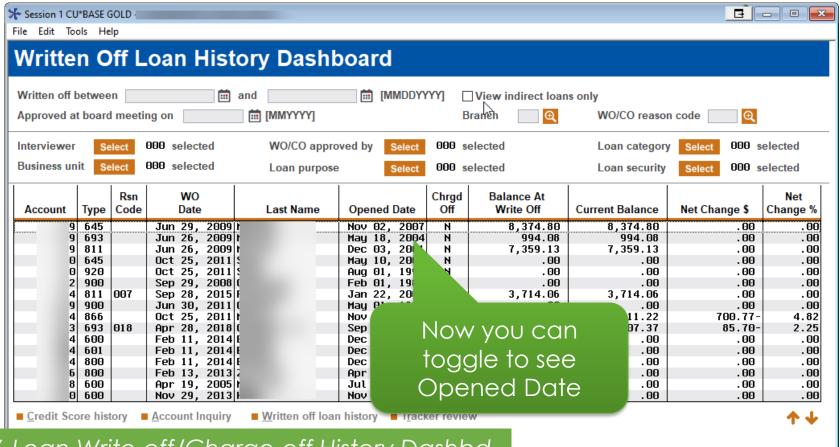
Check out the new and enhanced capabilities for your Accounting Team!

Analysis Feature Added to Investments Dashboard





Enhanced Written Off Loans Dashboard

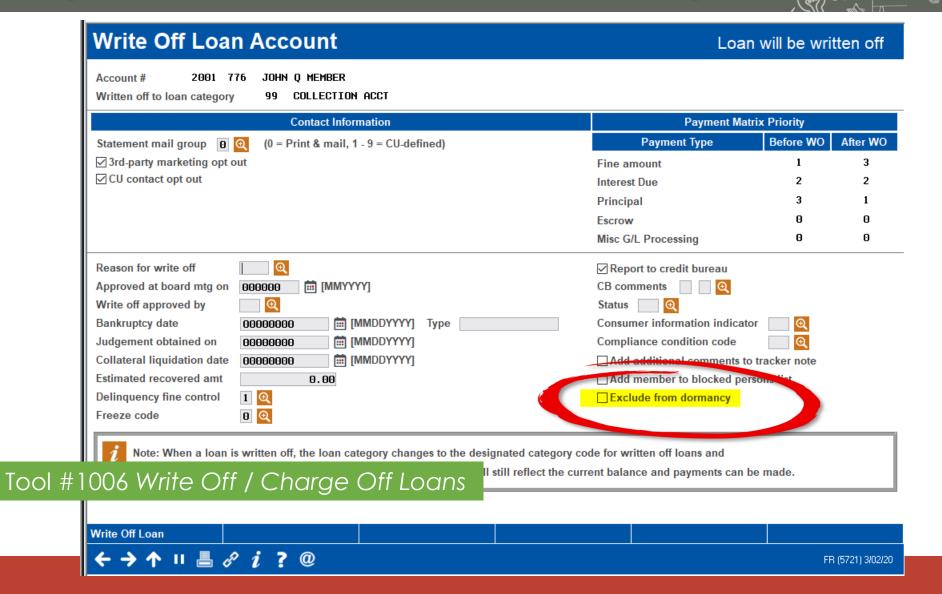


Tool #476 Loan Write-off/Charge-off History Dashbd



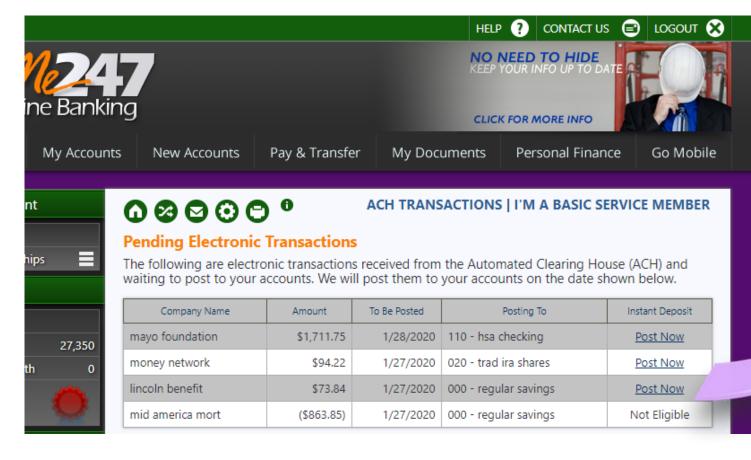


Ability to Exclude Member from Dormancy at Loan Write Off



On Demand Post of ACH Items

IN ONLINE BANKING WITH THE 20.07 RELEASE





New ACH Details Table

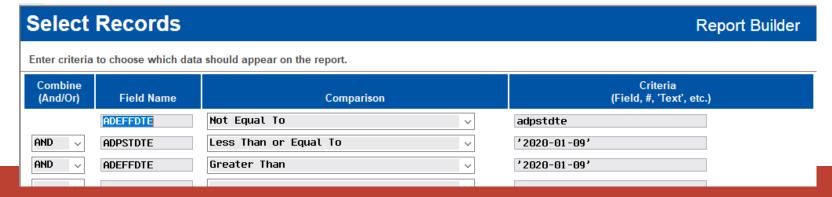
TO HELP WITH BALANCING ACH ENTRIES AT MONTH END

- Requested by Xtend SRS Bookkeeping to help with balancing "on demand" ACH transaction postings
- ACHDTL table

Line	3+	4 + 5 .	+ 6	.+7+	8 + 9	.+10.	+ 11	+12+	13+	.14+	.15
	Amount	Effective	Post	Company	Company	Deposit	er	Transaction	Last	Last	Last
		Date	Date	ID	Name	ID		Code	Update	Update	Updat
									Date	Time	User
000001	84.98	2020-01-07	2020-01-07	PAYPALSDW1	PAYPAL	3		22	2020-01-07	11.54.26	
000002	6,274.92	2020-01-07	2020-01-07	1035141375	FID BKG SVC LLC	1	361104	22	2020-01-07	11.54.26	
000003	12.00	2020-01-07	2020-01-07	1035141375	FID BKG SVC LLC	6		22	2020-01-07	11.54.26	
000004	.03	2020-01-07	2020-01-07	272476543	University of Mi	1	2	22	2020-01-07	11.54.26	
000005	.03	2020-01-07	2020-01-07	272476543	University of Mi	1	2	22	2020-01-07	11.54.26	
000006	177.45	2020-01-07	2020-01-07	3854931322	MERCHANT BNKCD	1	911108	22	2020-01-07	11.54.27	
000007	698.60	2020-01-07	2020-01-07	3854931322	MERCHANT BNKCD	3	5	22	2020-01-07	11.54.27	
000008	113.76	2020-01-07	2020-01-07	4169905	PAYONEER PAYMENT	1	571108	22	2020-01-07	11.54.27	

■ Canned query available via Tool #1925 ACH Deposits Posted Early (ACHDTL) to view

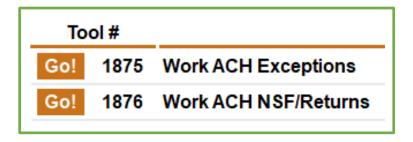
this table (as of April 2020)

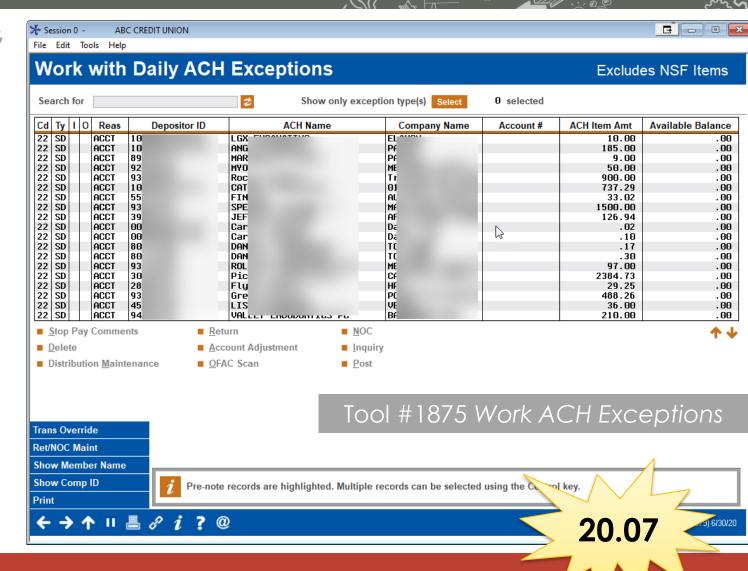


NEW Daily ACH Exception Handling Process

TWO TOOLS FOR DAILY ACH PROCESSING

- **Tool #1875** (formerly Tool #983) is for ACH exceptions that are NOT NSF (invalid account #, frozen or closed accounts, unauthorized items, stop pays, etc.)
 - Can repost after adjusting account numbers

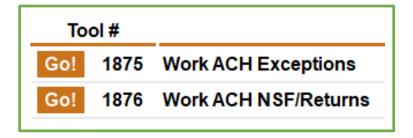


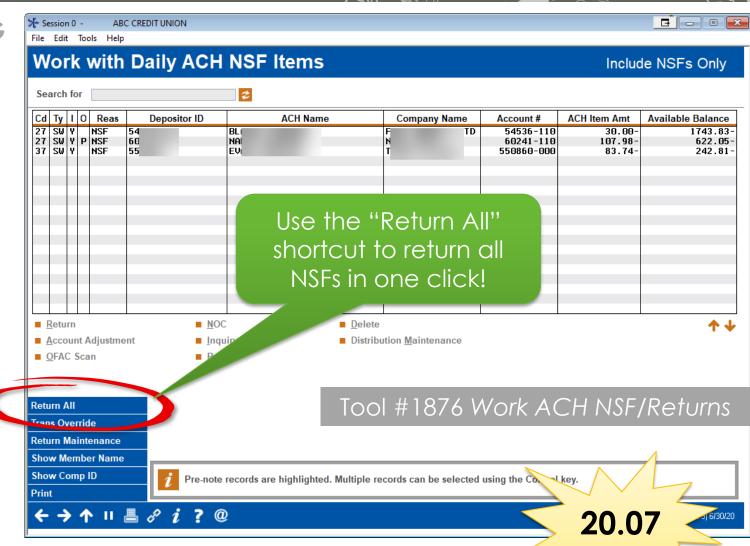


NEW Daily ACH Exception Handling Process

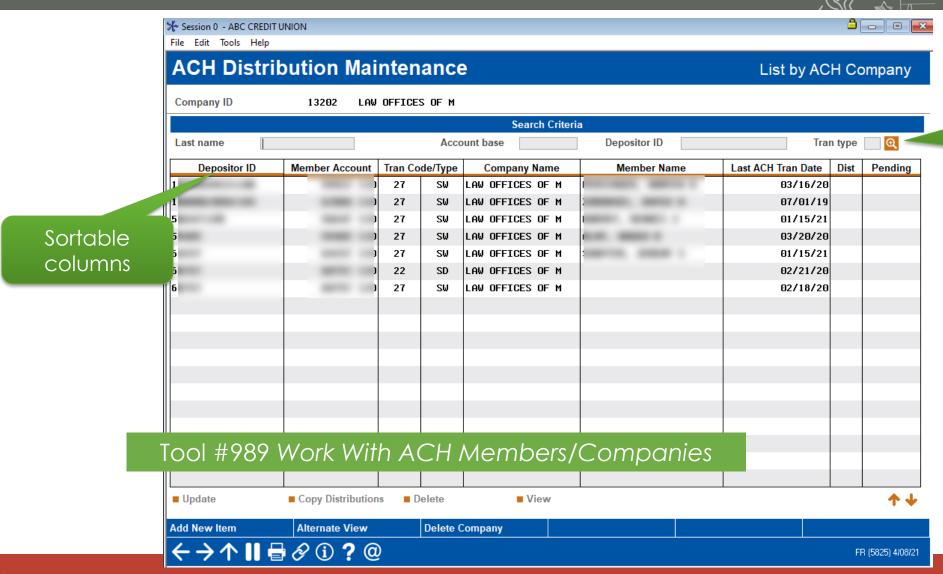
TWO TOOLS FOR DAILY ACH PROCESSING

- Tool #1876 is for NSF exceptions only
 - ACH item was posted then reversed due to insufficient funds,
 - Includes invalid accounts or other exceptions corrected in Tool #1875 but posted and reversed as NSF





Enhanced Filtering/Sorting on ACH Distribution Maintenance



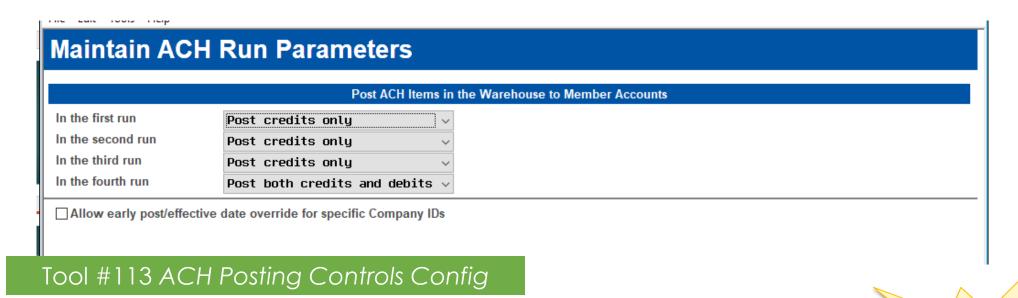
Added search by Tran type (SW, SD, etc.)



ACH Daily Posting Expansion

ALLOW FOR 4 POSTINGS PER DAY AFTER FILES ARE RECEIVED FROM THE FED

- The 4th ACH Daily Posting was implemented by Operations on May 5, 2019
- A 5th ACH receive was added on March 19, 2021, to be posted with the existing 4th run

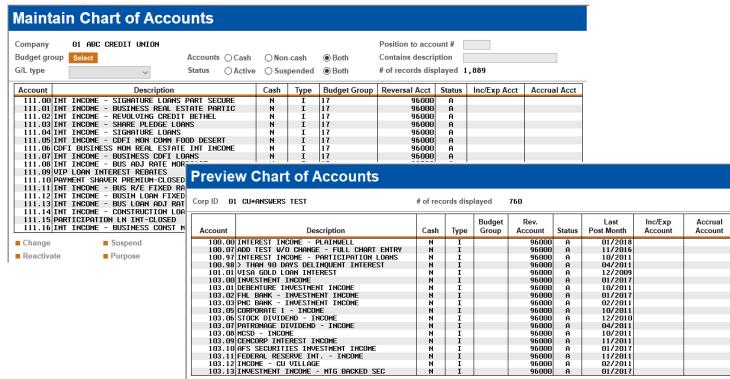


May 2019 & March 2021

Enhancements to G/L Chart of Accounts

REVIEWING AND MAINTAINING YOUR CHART OF ACCOUNTS IS EASIER!

- Maintaining your Chart of Accounts from Tool #202 is easier – suspend, delete, reactivate all from first screen
- From Tool #648 Print GL Chart of Accounts you can preview your Chart of Accounts prior to printing
 - Option to Print or Export



Tool #202 Chart of Accounts/Budget Groups Maint





DTI/LTV at Loan Creation Stored on MEMBERx Tables

RATIOS CAN BE USED FOR CECL/RISK CONCENTRATION CALCULATIONS

- Debt to Income (DTI) ratio calculated as
 Borrower's Total Monthly Expense/
 Borrowers Total Monthly Income
- Loan to Value (LTV) ratio calculated as
 Original Loan Balance/Collateral Value
- DTI and LTV at loan creation are now stored for written off loans

Need ideas for how to work with the new DTI/LTV data? Contact Asterisk Intelligence!

ai@cuanswers.com

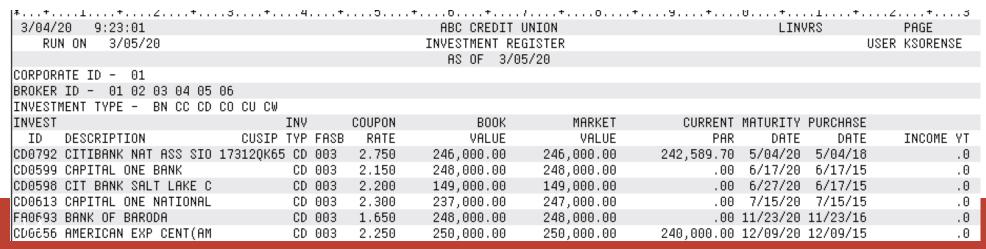


Enhancements to Investments Register/Schedule

CLEANER FORMAT FOR PROVIDING TO BOARD OF DIRECTORS

- Multiple selects for Broker, Institution and Investment type
- Maturity date range
- New Export to file feature





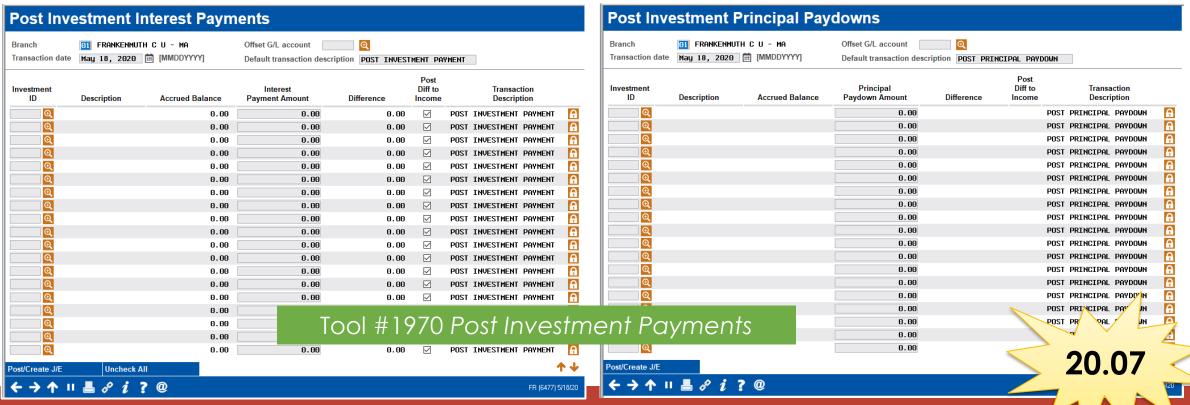




Enhancements to the Investment Payments Screen

QUICKLY POST INVESTMENT PAYMENTS TO PRINCIPAL OR INTEREST

- Separate screen for principal vs. interest payments
- Option to post differences to the investment's income G/L



Accounts Payable ACH Remittance Advice via Email

NOTIFY ACCOUNTS PAYABLE VENDORS OF ACH PAYMENTS

- Option to generate an ACH Remittance Advice for A/P payments
 - Email will generate with PDF of the Remittance Advice
- Multiple invoices combined into a single remittance!

ABC CREDIT UNION

Pay to:

FLOWER SHOPPE 123 MAIN STREET SUITE 100 RANDOM CITY, MI 45678 616-285-5777

Customer #: 00000000000000000123

In Payment for:

In I ayment for				_
Invoice Date	Invoice #	Description	Amount	Notes
03/02/2020	M483479	FEB FEES	100.00	See note below
		MARCH FEES	200.38	
		DISCOUNT FOR PREPAYMENT	85.00-	
		FEB COST	250.09	
		MARCH COST	218.45	

Notes:

Invoice #M483479

Includes February and March payment, including discount for prepayment.

ACH Remittance Advice

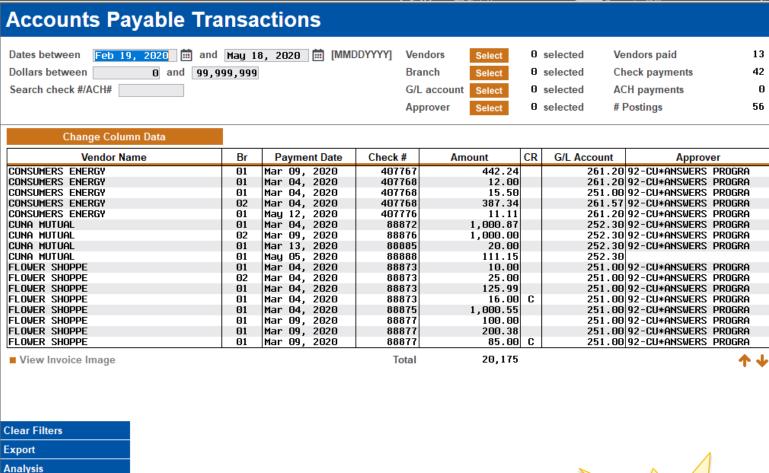
Date: 3/09/2020

Total payment: \$683.92

20.07

Accounts Payable Dashboard

- Provides qualitative data about the workload of your Accounts Payable department
 - How many vendors are paid, how many invoices get processed, payments via check vs. ACH, etc.

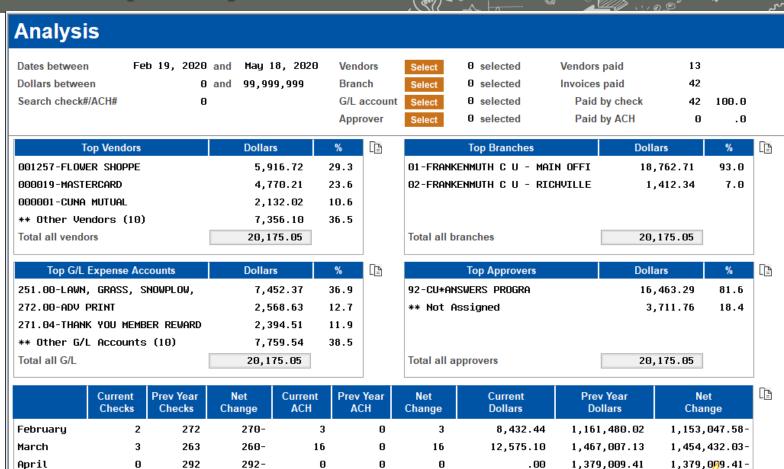


Tool #1740 Accounts Payable Dashboard



Accounts Payable Dashboard (Cont.)

 Analysis feature provides more details

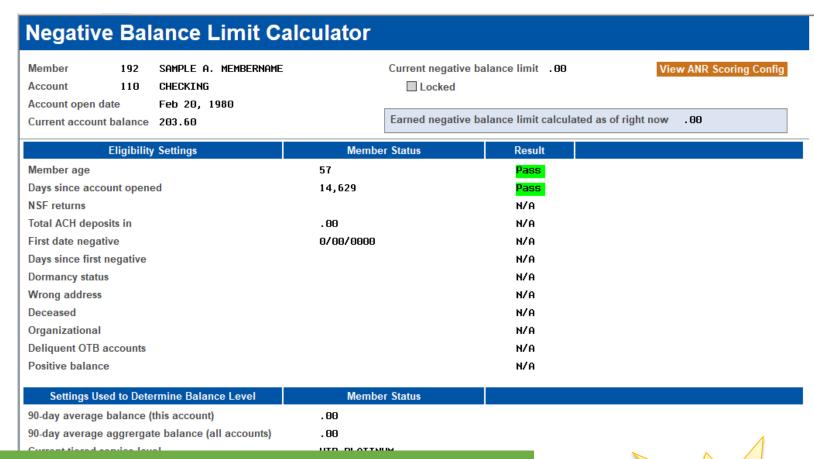


Tool #1740 Accounts Payable Dashboard



ANR Negative Balance Limit Calculator

- Standalone Negative Balance Limit Calculator shows the results of your CU's ANR scoring configuration, one member at a time
- Use this to verify that limits are being assigned as you expected

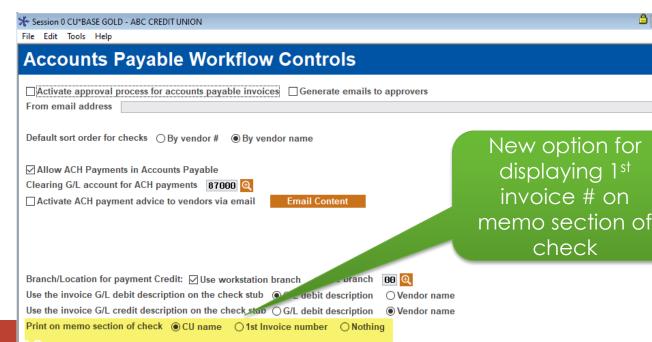


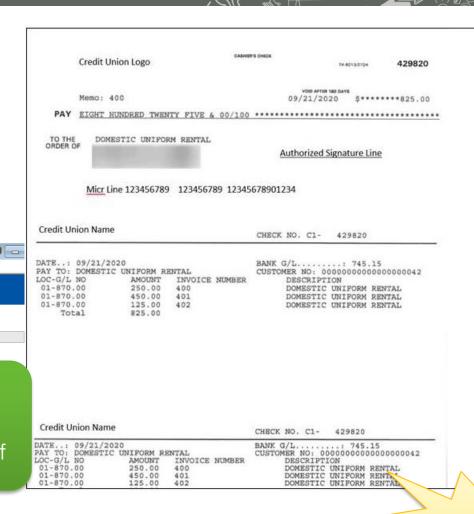
20.07

Tool #1180 Acct Negative Balance Limit Calculator

Enhance Accounts Payable Checks

- Includes option to print a single invoice number on the memo section of the check
 - If multiple invoices associated with the check then the first invoice # displays
- Print customer number on the check stub





20.1

Static Pool Analysis

Additional measurements were added to the Analytics Booth Static Loan Pool Analysis Dashboard in Dec. 2020

Measurement	2013 Pool	12/2014	12/2015	12/2016	1:	2/2017	12/2018
Pool Total Loan Count	8,273	8,273	8,273	8,273		8,273	8,273
Open Loan Count	7,192	5,259	4,123	3,154		2,429	1,832
Closed Loan Count	1,073	2,900	3,946	4,862		5,537	6,087
□W/O Loan Count	8	106	188	241		291	338
□C/O Loan Count		8	16	16		16	16
Pool Current Loan Balance	125,604,093	101,436,233	79,662,001	61,403,088	47	,913,370	38,797,035
Open Loan Balance	125,587,317	100,965,260	78,751,245	60,219,975	46,	,476,545	37,091,923
Closed Loan Balance							
□W/O Loan Balance	16,776	448,951	886,651	1,159,008	1,	,412,720	1,681,006
C/O Loan Balance		22,022	24,105	24,105		24,105	24,105
Pool Current Average Loan Balance	15,182	12,261	9,629	7,422		5,792	4,690
Avg Open Loan Balance	17,462	19,199	19,100	19,093		19,134	20,247
☐Avg Closed Loan Balance						13	ΔΝΔΙΥΤ
□Avg W/O Loan Balance	2,097	4,235	4,716	4,809			BOO
□Avg C/O Loan Balance		2,753	1,507	1,507			
Disbursement Limit	138,505,005	121,215,134	103,620,271	86,060,217	7(ature require E Dashboard wi
Total Collateral Value	71,363,748	68,325,124	65,691,814	63,030,029	6'	Thanks for at	tempting to visit the web
Pledged Collateral Amount	48,241,516	45,536,040	43,317,840	41,318,688	39	employees, b	oard members, and any

674

679

683

686

4.254 Tool #1680 AB: Static Loan Pool Analysis (Web) 140 Avg Minimum Payment Amount 262 254 261 263

□Avg Credit Score



ture requires a subscription to Analytics Booth

Dashboard with Web Version option

mpting to visit the web version of this CU*BASE Dashboard. The web version is only available to credit unions e to our Analytics Booth services. Analytics Booth is a powerful tool that can be provided so that credit union ard members, and any other individual your credit union deems necessary can access your credit union's data over any Internet connection. This service allows for any number of users. You can quickly order this service directly from the Asterisk Intelligence store



If you are interested in learning more about how Analytics Booth can have an impact on your operations, please contact a member of the Asterisk Intelligence team with any questions or to setup a demonstration

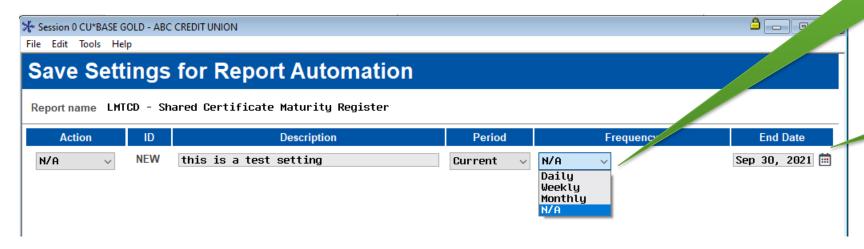
ai@cuanswers.com | 800.327.3478 ext. 870



Coming in 21.05 Release

Enhance Query/Report Automation

- Expands report automation to allow for daily or weekly in addition to monthly
- Option to enter an end date for when automation no longer needs to run



Frequency options expanded

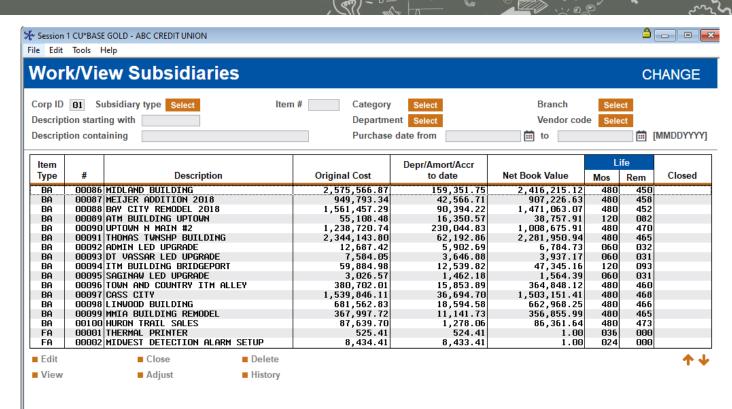
End date can be specified



Subsidiary Processing Overhaul

SUBSIDIARY DASHBOARD

- New dashboard for working all subsidiary items
- Items added, edited, adjusted or closed all from the same dashboard
- Sortable columns and ability to filter the dashboard by subsidiary type, category, purchase dates, etc.
- Ability to view subsidiary item history from the main dashboard



7145) 4/13/21

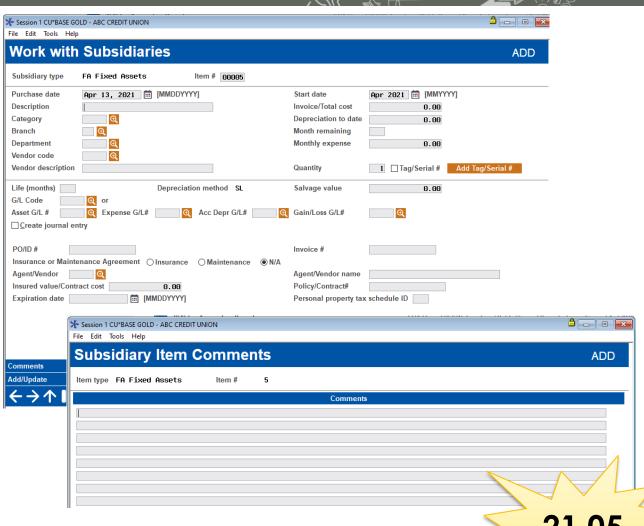
Tool #1772 Work/View Subsidiaries



Subsidiary Processing Overhaul (cont.)

SUBSIDIARY DATA

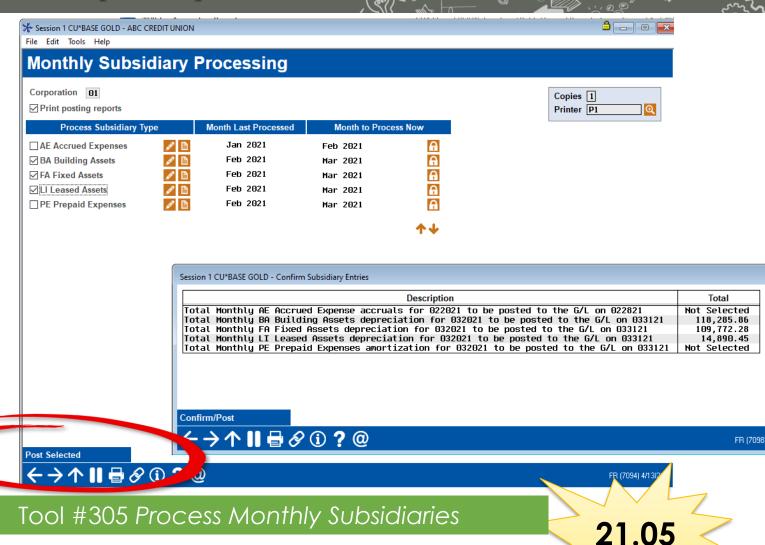
- Streamlined process for adding a new subsidiary item
- Dollar amount fields expanded to allow fixed assets with original cost up to \$1 million
- Comments can be added to individual subsidiary items



Subsidiary Processing Overhaul (cont.)

MONTHLY PROCESSING

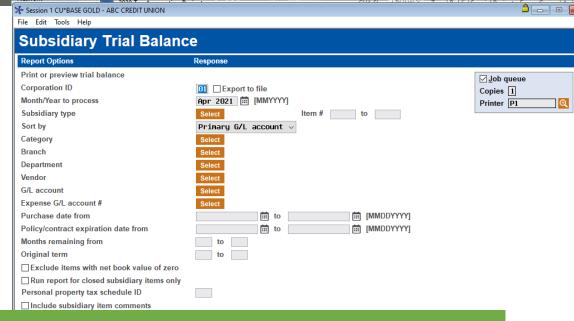
- Complete re-vamp of monthly subsidiary processing
- No more reference to "work files" because monthly entries are generated and posted at the same time
- Multiple subsidiary types can be processed at the same time
- Date controls so that months cannot be skipped



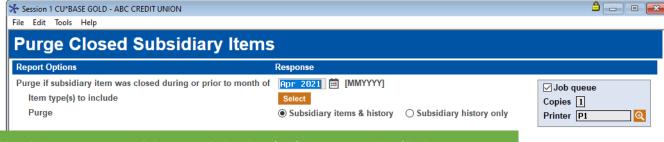
Subsidiary Processing Overhaul (cont.)

REPORTS

- Revamped selection criteria for Subsidiary Trial Balance Report
- Obsolete Short Trial Balance, Fixed Asset Inventory Listing and New/Closed Subsidiary Detail
- New Purged Subsidiary Item
 Report Session 1 CUTB



Tool #687 Print Subsidiary Trial Balance Detail



Tool #702 Purge Closed Subsidiary Detail Items

FR (5671) 4/13/2

Updates to New and Refinanced Loan Report

EASIER TO OBTAIN LOAN DISBURSEMENT INFO

- Expanded filter options and now includes disbursements for credit card loans
- Insurance premiums, fine payments, escrow transfers no longer included
- Option to include account adjustment/payment reversal transactions if desired
- Use for obtaining loans granted YTD for 5300 Call Report



Tool #554 New/Refinanced Loan History

RUN ON 4/1	.4/21		NEW AND F	REFINANCED LOAN DI	SBURSEMENTS			USER KSOREN	ISEN
			REPORT	FOR MONTH ENDING	MAR, 2021				
			REPORT F	ROM 1/01/2021 TO	1/31/2021				
CORPORATION 01 -	ABC CREDIT	UNION							
CLOSED END LOANS	/LINE OF CR	EDIT LOANS/CREDIT (CARDS						
CU OWNED PORTION	/INVESTOR O	WNED PORTION							1
INCLUDE WRITTEN	OFF LOANS								
SUMMARY	CLOSE	D END LOANS	LINE OF	CREDIT LOANS	CREDI	T CARD LOANS	ALL	LOANS	
TOTAL	COUNT	TOTAL AMT	COUNT	TOTAL AMT	COUNT	TOTAL AMT	COUNT	1	9
DISBURSEMENTS	1,551	37,056,072.65	1,108	1,933,452.69	92,148	7,196,887.71	94,807	46 100	'
	·	·			·		·		01 0 5

What projects are up next?

Allow Non-Return Fees by Origin Code

PS#53376 IN QC TESTING

- Will now have the option to configure separate non-return fees based on the origin of the transaction
- Can specify to charge a fee for transactions greater than a specified amount
- Remember that the existing nonfee tolerance is for all origin codes

Non-Returned Items							
Non-return fee G/L	135.50						
Transaction description	BOUNCE PROTECT FEE						
Non-fee tolerance within	7.00 of available balance						
Maximum non-return fee amount per day (cap) 9,999,999.99							
Non-return fees by Origin	Code:						
<u>Origin</u>	Non-return fee for transaction amts greater than						
01 Teller	35.00						
02 Share Draft Processing	35.00						
11 ACH	25.00						
13 ATM	25.00						
16 Debit Card	35.00						
20 Bill Pay/P2P	35.00						
All other	35.00 5.00						

Mockup only – subject to change

Enhance On-Demand ACH Fee Options

PS#55099 IN DEVELOPMENT

Different fee amounts can be specified for on-demand posting of ACH items via Phone Operator vs. online banking Enhance On-Demand ACH Fee Options

Project #
Allow Different Fee for CU*BASE vs. Online Banking

Date 11/2/20 Spec Writer: Karen Systems Affected: ☑ CU*BASE

This project allows for different fee amounts for on-demand posting of ACH items via Phone Operator vs. via online banking. The ability to configure a single ACH On-Demand Posting Services fee was added to the Online/Mobile Banking VMS Configuration per PS#48319.

Online/Mobile banking must be updated to obey the new ACH on-demand fee structure added per this project.

9/30/20 ACH On-Demand Posting Configuration 08:52:01 UACHMN-01
Allow on-demand posting of ACH deposits via online/mobile web Y (Y/N) Allow on-demand posting of ACH deposits via Phone Op Y (Y/N)
Fee amount 2500
Fee transaction description EARLY POSTING FEE
Fee income G/L number 15460 ? INCOME FROM ACH ORIGINATION
Fee income G/L number 15460 ?
Allow employee to waive fee N

Mockup only – subject to change

ACH Posting Controls

PS#55403 SPECIFICATIONS SUBMITTED

- Simplify the ACH Posting Controls Configuration to combine three runs into a single "all midday runs" option
 - First run
 - Mid-day runs
 - Final run
- Adding an option to post all credits immediately upon receipt regardless of the effective date (will no longer be exclusive to specific company ID as it currently is)

Enhancements to ACH Posting Controls

Project # 55403

Date 12/15/20

Spec Writer: Karen and Dawn

Systems Affected:

☑ CU*BASE

This project updates the ACH Posting Controls configuration (Tool #113) to allow the option to automatically post credits (deposits) for all companies as soon as they arrive in the warehouse. Currently CUs must manually turn this feature on, one ACH company ID at a time, and many would prefer for this to be the default setting for all ACH companies instead.

The existing Allow early post/effective date override for specific Company IDs Y/N field on the ACH Posting Controls configuration will be expanded to have 3 options:

1=Allow early post/effective date override (credits only) for specific Company IDs

2=Post credits for all Company IDs immediately upon receipt, regardless of effective date

3=Do not allow early post

Option 1 will work as now, allowing CUs to manually set the *Post incoming credit transactions* early (effective date override) flag on individual ACH company records as desired. Option 2 will effectively turn that flag on automatically, for all existing company IDs as well as for all new ACH companies as they are created. (The specific method for accomplishing this is still being determined, as described later in this spec.) Keep in mind that with option 2, the credit union will not be able to adjust a particular Company ID not to post early. Every ACH credit that comes in will always post immediately no matter what.

This enhancement was requested by Illinois Community and <u>DayMet</u> Credit Union. Refer to the separate email attached in Track*It for more information.

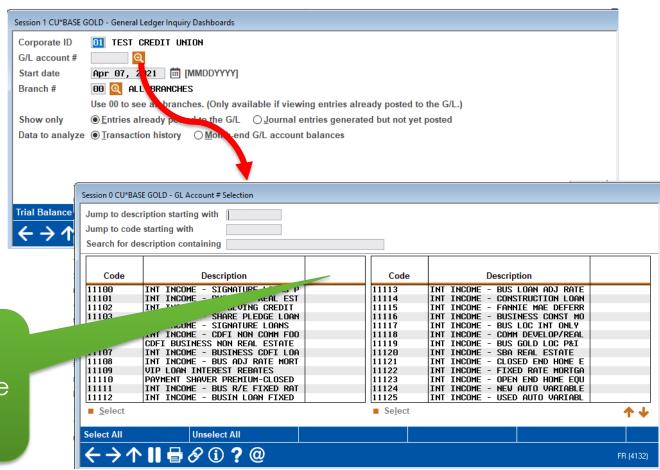
This project also includes combining the 3^{rd} and 4^{th} ACH run parameter into a single "All midday runs" option. See notes below regarding PS#55016 "Add additional (5th) ACH posting configuration for upcoming same-day expansion by FRB."

G/L Lookup Window Enhancement

PS#55352 IN QC TESTING

- The G/L lookup from Tool #60 GL Journal History Inquiry will identify suspended G/L accounts
- The subsequent General Ledger Transaction Inquiry will indicate if the selected G/L account is suspended

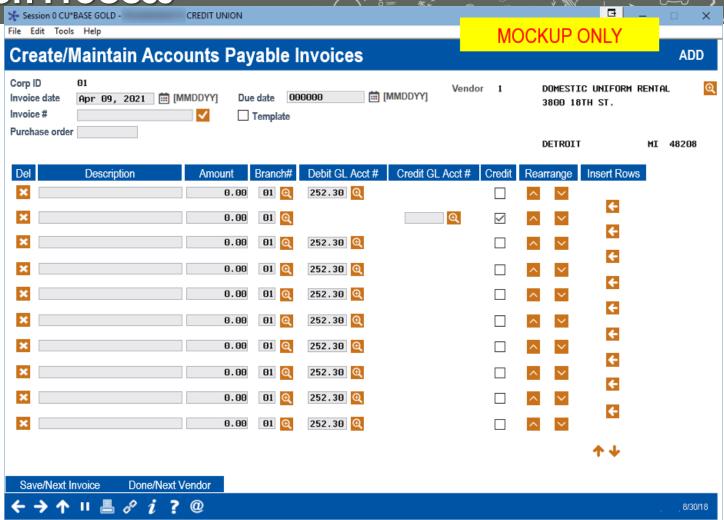
Suspended column will be added here



Enhance A/P Invoice Creation Process

SPECIFICATIONS SUBMITTED PS#55799

- Revamps the process of adding
 A/P invoices via Tool #990 Work
 With Outstanding Invoices
 - Eliminate awkward way that A/P invoices are entered today
 - Due date no longer required when creating the invoice
 - Much easier to edit pending invoices waiting to be selected for payment
 - Ability to insert/delete invoice item lines and move up/down

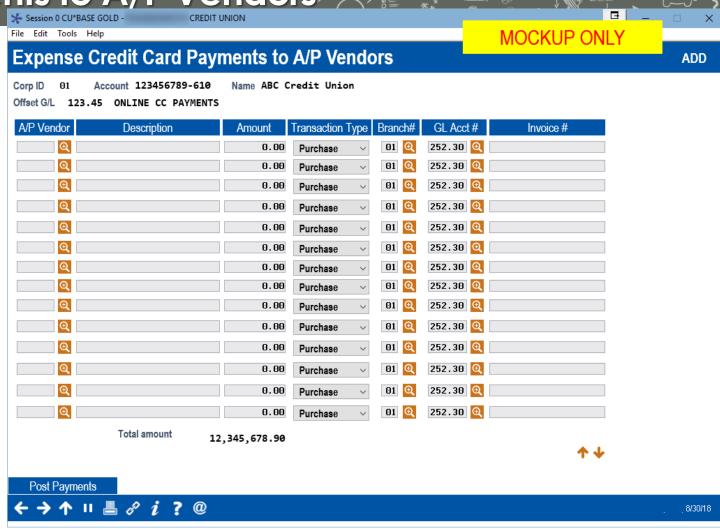


Will include ability to save and retrieve invoice templates!

Expense Credit Card Payments to A/P Vendors

SPECIFICATIONS SUBMITTED PS#55597

New tool for expensing payments to online credit card loan accounts that have already posted and CU would like to expense to the appropriate A/P vendor



In response to suggestion from Michigan Legacy CU!

Biz Watch for ACH

IN DEVELOPMENT PS#55026

- New standalone BizLink 247 feature prevents ACH transactions from posting until the business member authorizes the transactions
- Will help protect businesses from paying unauthorized ACH transactions
- Businesses need to enroll in the feature and can specify which ACH transactions to prevent (debits, credits or both)

Biz Watch for ACH

Project # _____55026

ACH Controls for Business Memberships via Biz Link 247

Date October 21, 2020 Spec Writer: Karen/Dawn Systems Affected:

☑ CU*BASE

✓ Desktop banking
 ✓ Mobile web banking

☑ Mobile apps

Programmer: Please schedule a spec review early on in the coding to address any questions regarding this project.

This project creates a standalone "Biz Watch for ACH" feature that prevents ACH transactions from posting until the business member reviews and authorizes the transactions. The specified transactions (only ACH debits, only ACH credits or both) will display in Biz Link 247 (formerly It's My Biz 247) as ACH exceptions. Activating this feature helps to protect businesses from paying unauthorized ACH transactions. The business member controls the ACH transactions that actually get posted.

A new module will be developed in **Biz Link 247** for the business member to review the daily incoming ACH transactions before they post and choose either to post or return them. The business will have to abide by existing ACH timing deadlines, so they will be notified via email when exceptions have been added to the list and will need to log in to work them. Until the ACH exceptions have been worked, the items will appear on the ACH Exceptions Dashboard (same as today) but will have an indicator so that the CU knows not to work them. If the business member has already posted or returned the item, it no longer displays on the exceptions list in CU*BASE.

We will not be adding any PIB MLO controls at this time. This means that any employee who has access to log in to Biz Link 247 will have access to the new feature for reviewing and approving/returning ACH items.

Suggested content for the Release Summary (sales pitch, geared toward credit unions):

Refer to Kitchen page.

Contents
Summary of Program Changes
Existing Positive Pay Block Feature
Block Accounts for In-House Checks
New "Enroll in Biz Watch for ACH" Tool Changes to ACH Reports.
Work ACH Exceptions
Changes to Biz Link 247 Online Banking
Tool Database Changes

Note to Programmer: Any screens and programs that are not to current standards, please bring them to standards with this project.

Biz Link 247 ACH Controls

1 of 9

Tracking Recoveries on Written Off Loans

IN DEVELOPMENT PS#55515

- Initial projects in process for enhanced tracking of written off loans, recoveries and charged off loans
 - New program to calculate "separate" daily accruals on written-off loans
 - Expand written off loans database table to capture new fields needed for daily accrual and other informational fields (judgement amount, collection expenses, etc.)
 - New table to store accrual history

Tracking Recoveries on Written-Off Loans

Project 1(a): Daily Interest Accruals for Written-off Loans Project 1(b): Expanding the Written-off Loans Database

January 7, 2021

Spec Writer: Dawn Moore

Systems Affected:

☑ CU*BASE

Credit Unions Affected:

✓ A11

This project builds the first steps in a new structure to help CUs collect and track recoveries on writtenoff loans. This is the first in a series of projects under the Tracking Recoveries initiative. See the Kitchen for a complete overview of the series.

There are two main parts to this project:

PROJECT 1(A) Write a new program to calculate da

Write a new program to calculate daily accruals on written-off loans

- Use rate and CURBAL from loan account record
- Use int calc type 0 (365 daily int)
- Figure out what other fields we might need (last int calc date comes to mind) and add/populate them
- · Record the result in a new "bucket" field

PROJECT 1(B) Expand the written off loans database table (LNWRTOFF)

Project

55515

- Captured as of time of write off (informational only; these are also retained on the MEMBER5/6 record):
- Rate as of write-off
- Interest due as of write-off
- · Interest calc type as of write-off

New "bucket" fields that could be maintained by the CU at/after write-off:

- Interest accrued since write-off (see Project 1A)
- Judgment amount (we already have a place for the date)
- Total collection expenses
- Total other fines/fees
- Comments (free-form text to record things like judgment details, composition of the collection expenses or other fees, etc.)

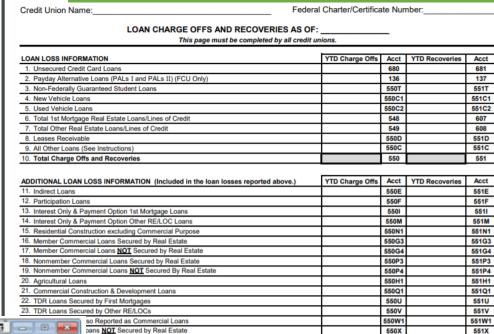
NOTE: This project will also add screen sizing to the loan write-off/charge-off tool as well as the write-off/charge-off inquiry and maintenance screens.



Tracking Recoveries on Written Off Loans

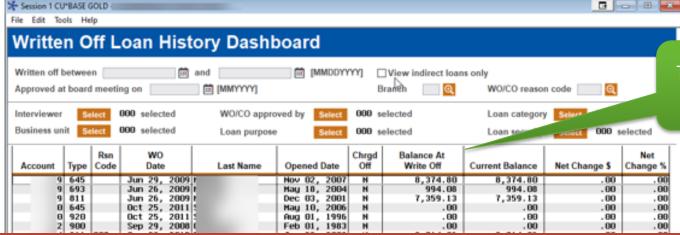
NEED CREDIT UNION INPUT

- Research and documentation in process to help CUs gather recovery information for the 5300 Call Report
- How do you gather recovery information today?
- Would you use the Net Change \$ from the Written Off Loan History Dashboard if we added EOM Date toggles?



Loans NOT Secured by Real Estate

5300 Call Report page 10



Toggle Balance at Write Off and/or Current Balance with appropriate EOM balance?

551Y1

Tracking Recoveries on Written Off Loans

FUTURE PROJECTS

- Create a payoff calculator
- Change how payments are calculated to automate collection of interest accrued since write off
- Create new subsidiary tracking activity history
- Documentation updates

Read more in the Kitchen!

Our Vision for Future Projects

- Project 2(a): Create a payoff calculator, maybe something similar to the "prepare mortgage for payoff" tool.
- Project 2(b): Change how payments are collected to automate collection of the interest accrued since write-off (once principal and interest due are paid down to zero).
- Project 3: Create a new subsidiary activity history tied to the WO loan data to automate the detail behind the new buckets (collection expenses, other fees/fines, etc.).

Status: Will begin design after projects 1(a) and (b) are getting near to implementation.

Other Related Efforts

We are also working on a training and documentation project to help CUs gather this data for **5300 reporting**. We'll analyze how we can use data we already have to calculate recoveries on written-off loans, and make recommendations on how CUs can analyze and assemble it in a way that fits their needs. What we learn will also inform what we might develop as far as dashboard enhancements, etc.

We will also work on documenting **recommendations for reinstating loans** after a judgment, with tips and ideas about methods that work well with existing CU*BASE tools.

We Want to Hear from You

Give us your feedback, ideas, and suggestions so we can consider them as we continue to shape the final design. And if you'd like to talk to someone, reach out to the chefs for this recipe: Randy Karnes and Dawn Moore.

cuanswers.com/resources/kitchen

Other Accounting Related Enhancements



More Accounts Payable Projects

- Enhancements to approvals:
 - Automatic A/P invoice approvals based on \$
 amount ranges
 - Ability to approve multiple A/P invoices at the same time
 - Allow approver to make changes to A/P invoice details
 - Assign more than one approver to invoice
- Add check status info to the vendor history
- Ability to sort A/P Open Payables and Paid History Report by vendor name

ACH Projects

- Improve the online process for working the PACHSU
- Document ACH translates by CU
- ACH origination for business members
- Loan payments in online/mobile banking via third party credit card (settled via ACH)

What else should we talk about?

Thank you!