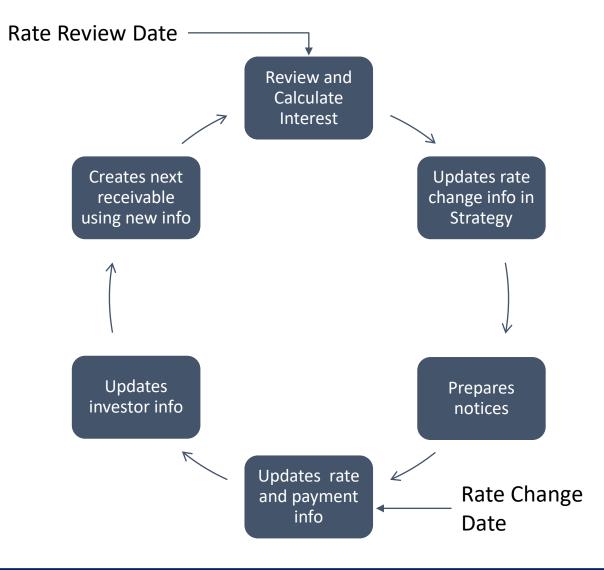


Adjustable Loan Processing in Strategy

Adjustable Loan Processing in Strategy

- Overview of the session
 - Adjustable Loan Setup
 - Strategy's Adjustable Loan
 - What's New
 - Transition to SOFR

Strategy's Adjustable Loan Processing



Automates the review and adjustment of pay rate interest and payments using system and loan level parameters

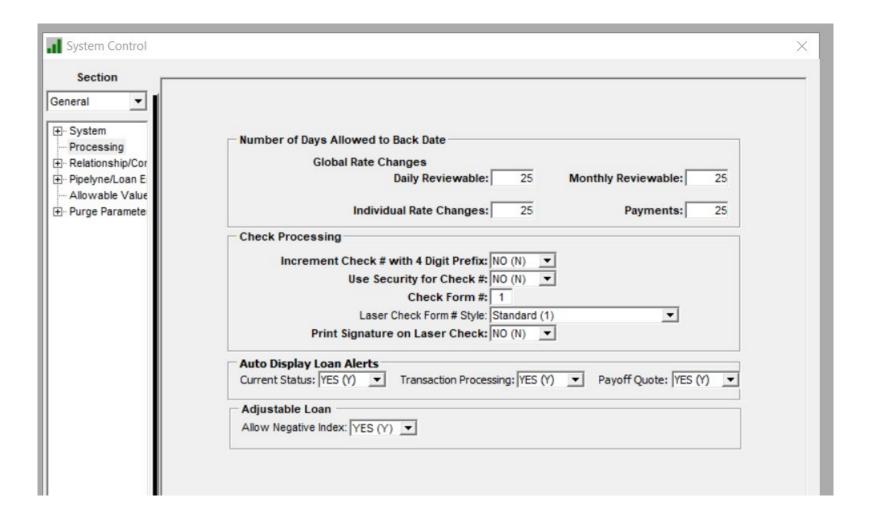


System Level Setup

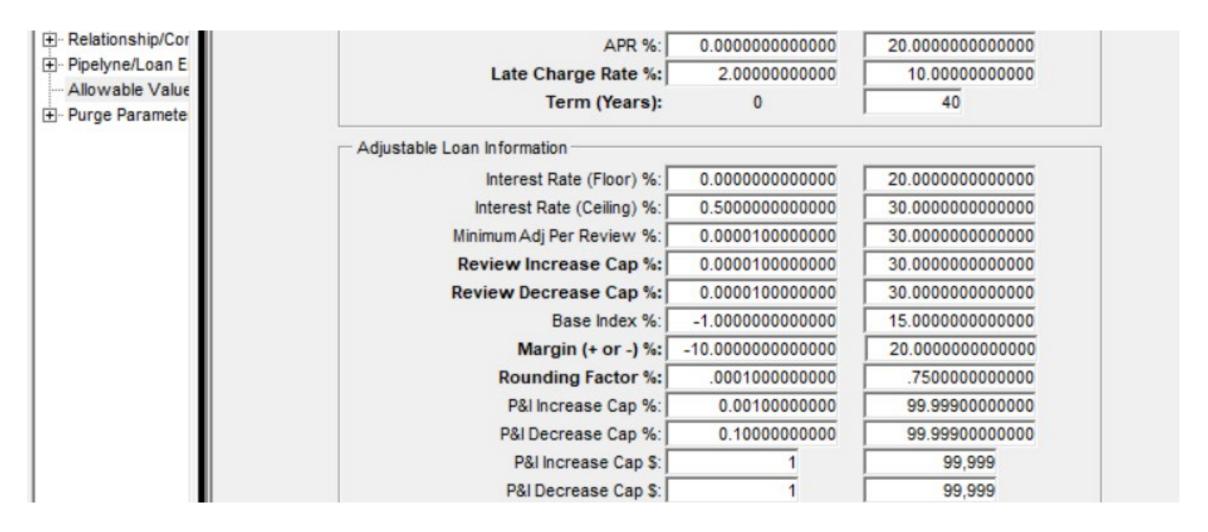
System Control

- The number of days you'll allow for backdating of a rate is found in the system control.
- The Allow Negative Index field is a Yes/No field to turn on or off the ability to enter negative values in Index related fields.
- The parameters found in your system control file will dictate the lows and highs allowed in your adjustable loan records.

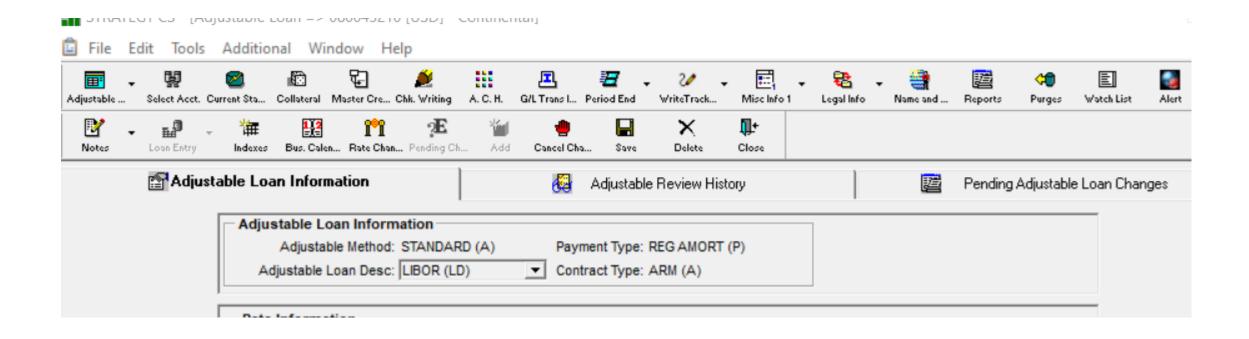
System Control



System Control



ARM Tool Bar



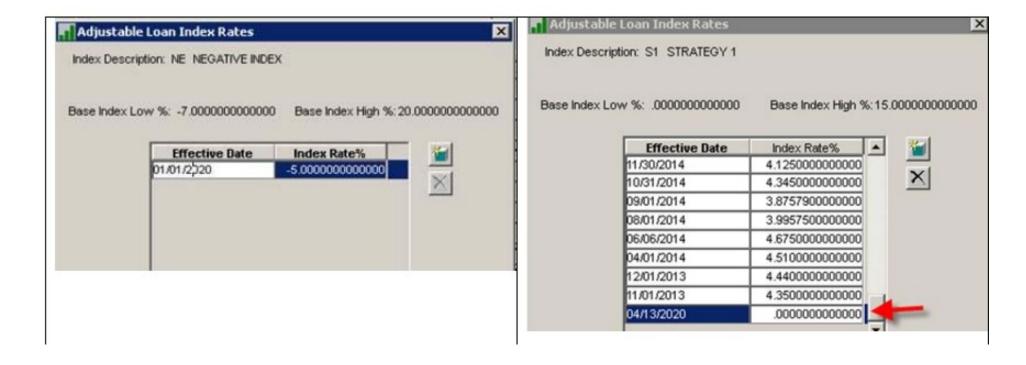
Index Rates

- Index Rates
 - olndices are defined by your organization
 - Manual Update
 - Upload using MATI
 - Use API available in R20

Index Rates

Index Rates





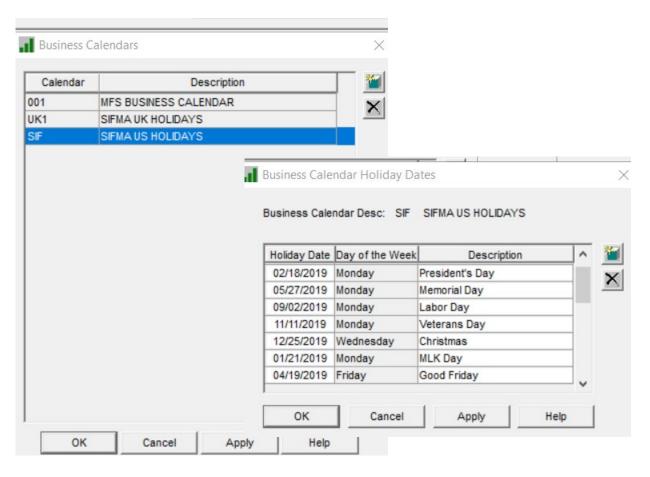
Business Calendar

- Business Calendar
 - Ability to set up multiple business calendars
 - Tied to Rate Change Date and/or Rate Review Date
 - Rate Change with Business Calendar cannot be used with Payment Types A, D, P
 - Rate & Payment changes could occur on different days, therefore neg am or fixed principal payment types are required.

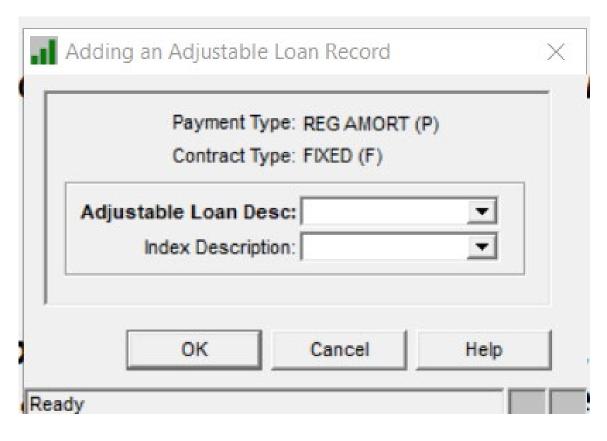
ARM Tool Bar

Business Calendar





Creating an ARM record



Contract Type must be anything other than an F

 If loan is Fixed rate, an ARM record can be added, but neither the rate or the payment will change

Adjustable Loan Default in Loan Entry

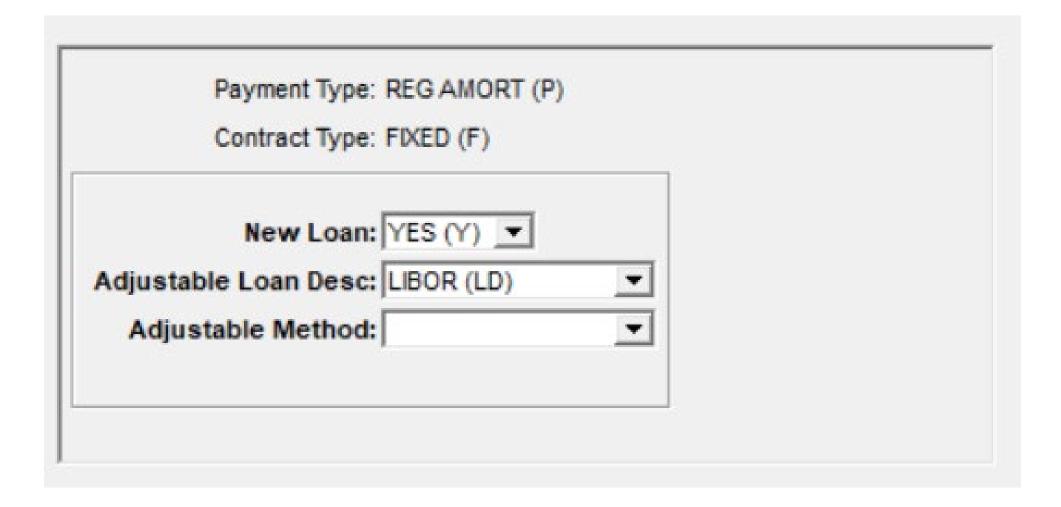
 Keys are Adjustable Loan Description and Index

Creating or Updating an ARM Record

The Adjustable Loan wizard was designed to HELP you set up your records correctly.

Business edits are in place to help guide and make sure that the appropriate data is input to the system.

Creating or Updating an ARM Wizard



Adjustable Rate Methods

Strategy's Adjustable Rate Methods determine how Strategy calculates the interest rate using the provided parameters, constants, and constraints

Standard	Methods				
A	Margin is added to the new Index Rate; this is the most widely used method. This code impacts the calculation of Investor Net Yield when there is a floating net yield on the investor.				
J	Margin is added to the index with periodic caps.				
K	Index is multiplied by the margin to represent a % of the Index				
P	Allows you to use up to two margins and two user-defined arithmetic operators (add/subtract/multiply or divide). With Adjustable method P, the Margin #1 and Operator #1 are required entries used to calculate the new rate. Margin #2 and Operator #2 are optional fields; if they are not used, then the new rate will be the result of Margin #1 and Operator #1 only. If there is a value in the Margin #2 and Operator #2 fields, an additional calculation is performed with these values.				
Exception	n Loans				
E	Loan is an exception and must be handled manually. Exception loans must be monthly reviewable; daily reviewable loans cannot use this method.				
Federal H	Home Loan Bank (FHLB) Methods				
B Uses previous index and current rate, then rounds change in rate.					
F	Uses previous index and current rate and rounds rate.				
L	Uses original index and original rate and rounds change in rate.				
M	Uses original index and original rate and rounds the rate.				
Step Rate	e Methods				
C	Rate is adjusted up or down based upon a set percentage.				
D	Rate is adjusted and converted to a fixed rate.				
Growing	Equity Loan Methods; not valid for Payment Type F, I, R, or Q				
G	P&I Payment increase only, based upon a %.				
н	P&I Payment increase only, based on a \$.				

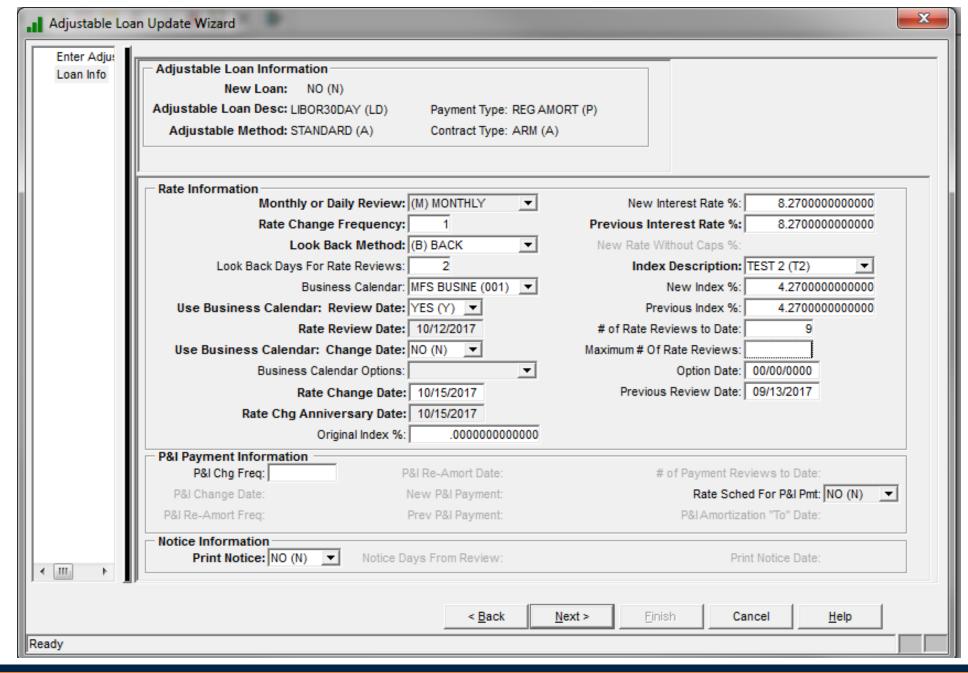
P&I Payment increase only, based on a \$.

Compounding in Arrears (SOFR)

- Compounding in Arrears Rate 1 Compounding the Rate simple margin
- Compounding in Arrears Rate 1 Compounding the Rate simple margin & spread adjustment
- Compounding in Arrears Rate 2 Compounding the Balance simple margin
- Compounding in Arrears Rate 2 Compounding the Balance simple margin & spread adjustment

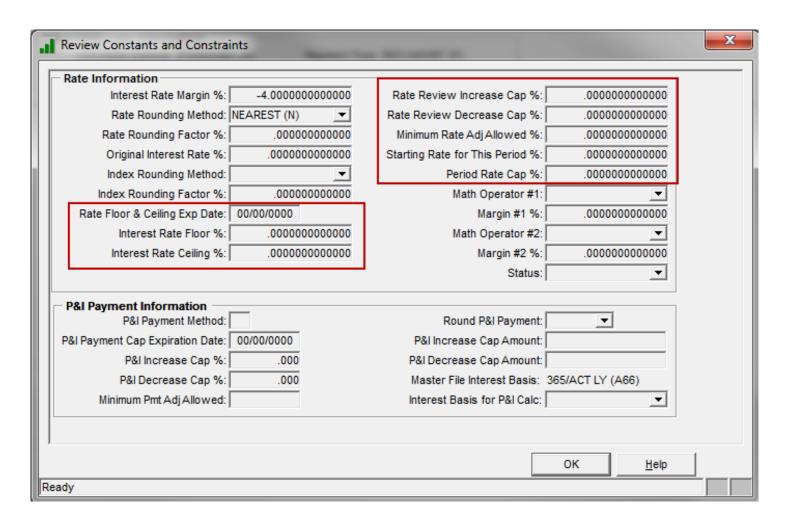
Payment Adjustment

- ∘ If payment type = P, cannot be daily reviewable.
 - As the interest increases a neg am situation could arise. So, daily reviewable must allow for neg am (payment type G)

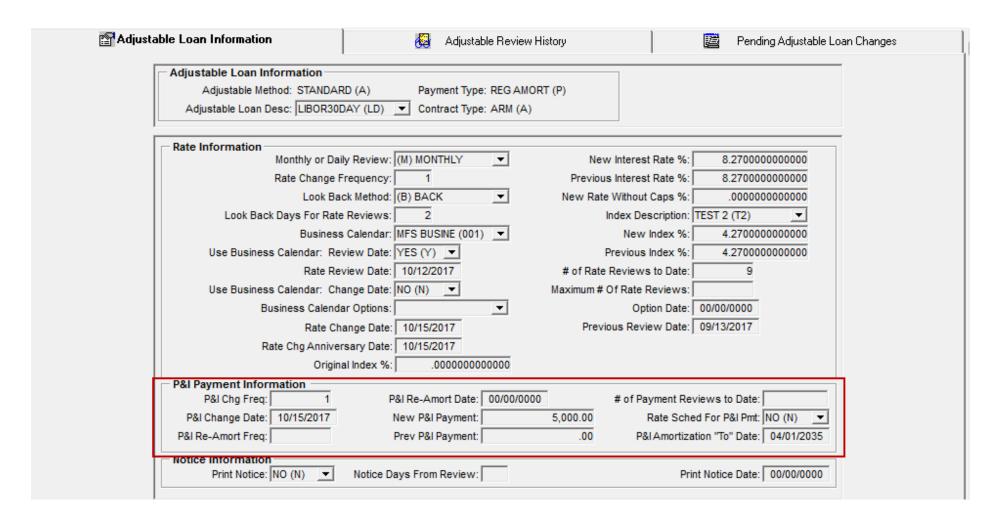


Enter Adjus Adjustable Loan Information Loan Info New Loan: NO (N) Constants Adjustable Loan Desc: LIBOR30DAY (LD) Payment Type: REG AMORT (P) Contract Type: ARM (A) Adjustable Method: STANDARD (A) Rate Information 4.00000000000000 Rate Review Increase Cap %: .00000000000000 Interest Rate Margin %: Rate Rounding Method: NEAREST (N) Rate Review Decrease Cap %: .00000000000000 Rate Rounding Factor %: .000000000000 Minimum Rate Adj Allowed %: .00000000000000 .00000000000000 Original Interest Rate %: Starting Rate for This Period %: Index Rounding Method: Period Rate Cap %: Index Rounding Factor %: Math Operator #1: Rate Floor & Ceiling Exp Date: Margin #1 %: Interest Rate Floor %: .00000000000000 Math Operator #2: Interest Rate Ceiling %: .00000000000000 Margin #2 %: Status: **P&I Payment Information** P&I Payment Method: Round P&I Payment: P&I Payment Cap Expiration Date: P&I Increase Cap Amount: P&I Increase Cap %: P&I Decrease Cap Amount: P&I Decrease Cap %: Master File Interest Basis: 365/ACT LY (A66) Interest Pasis for DOLCale:

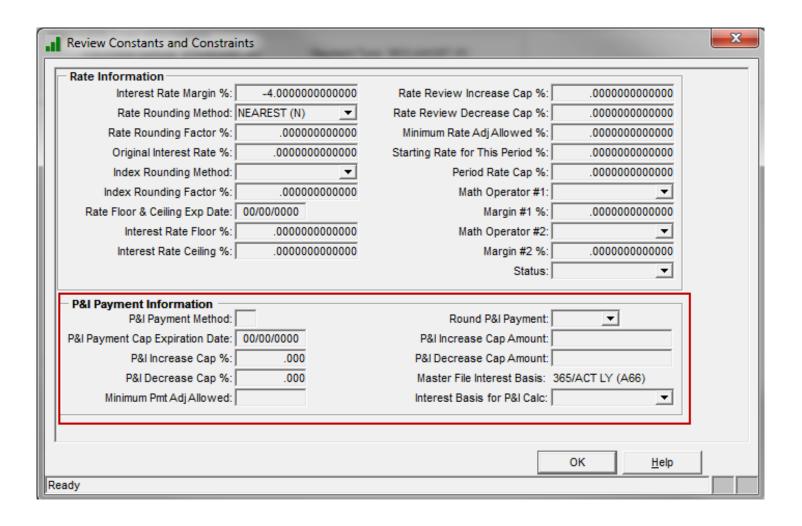
Rate, Floors, Ceilings and Caps



P&I Payment Change Information



P&I Payments Constants and Constraints





Strategy Adjustable Loan

Rate Review Date

- Using the information you have setup for the loan,
 Strategy will calculate the new rate and new payment amount
 - Based on lookback days and Business Calendars that are applied to the loan
- The resulting information is put into an Adjustable Review History record (PARMH)
- The dates and rates in the Adjustable Loan
 Information are then rolled and updated as needed

Rate Change Date

- Using the information from the Adjustable Review History record, Strategy....
 - Updates the Interest Rate in the Master file
 - Updates the Payment Amount in the Master File
- Between the Rate Review Date and the Rate Change Date, you could change information in the History record.
- Changes made to the History record after the Rate Change date will not impact the loan (it would be informational only).

Date Definitions

Rate Change Anniversary Date

- Scheduled anniversary date of rate changes on a normal calendar basis
- For monthly reviewable loans, this is typically the payment anniversary date

Date Definitions

- Rate Review Date is the date the new rate is established (when the index value is retrieved).
 - Not tied to a Business Calendar
 - Back up from the rate change anniversary date by the number of lookback days indicated.
 - Tied to a Business Calendar
 - Back up from the rate change anniversary date by the number of lookback days – counting ONLY business days (ignoring weekends and holidays)

Date Definitions

Rate Change Date

- Not tied to a business calendar
 - Same as Rate Change Anniversary Date
 - Scheduled rate change date
- Tied to a business calendar
 - If the Rate Change Anniversary Date falls on a non-business day, the Rate Change Date is changed to the next business day (following the rate change anniversary date).

No Business Calendar

Rate Information
Monthly or Daily Review: (M) MONTHLY ▼
Rate Change Frequency: 1
Look Back Method: (B) BACK ▼
Look Back Days For Rate Reviews: 20
Business Calendar: MFS BUSINE (001)
Use Business Calendar: Review Date: NO (N) ▼
Rate Review Date: 08/12/2019
Use Business Calendar: Change Date: NO (N) ▼
Business Calendar Options:
Rate Change Date: 09/01/2019
Rate Chg Anniversary Date: 09/01/2019
Original Index %: .000000000000

No Business Calendar in Use

			71 1 01 011	0	_		
	S	M	Т	W	Т	F	S
		Augus		1	2	3	
				Rate Review	/ Date		
	4	5		/	8	9	10
Rate Change Anniversary [)ate	12	13	14	15	16	17
Allinversary L	18	19	20	21	22	23	24
			Rate Char				
	25	26	21	28	29	30	31
	1	2	3	4	5	6	7
Confidential Information	- For the use of M	cCracken Custom	ers only.				

Using Business Calendar – Rate Review Date

Rate Information	
Monthly or Daily Review:	(M) MONTHLY
Rate Change Frequency:	1
Look Back Method:	(B) BACK ▼
Look Back Days For Rate Reviews:	20
Business Calendar:	MFS BUSINE (001)
Use Business Calendar: Review Date:	YES (Y)
Rate Review Date:	08/05/2019
Use Business Calendar: Change Date:	NO (N) 🔻
Business Calendar Options:	▼
Rate Change Date	09/01/2019
Rate Chg Anniversary Date	09/01/2019
Original Index %	.00000000000

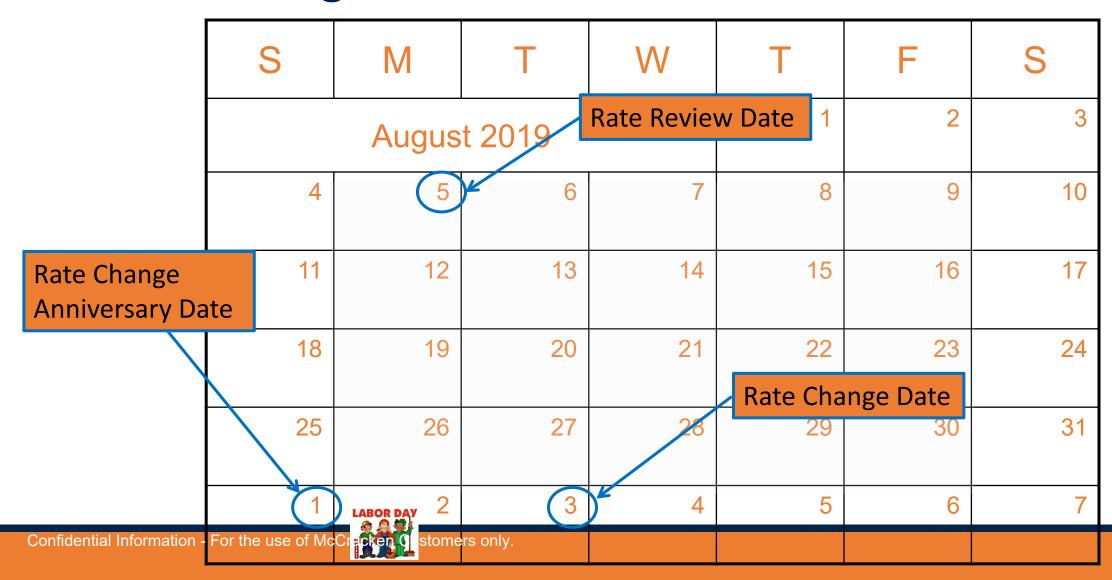
Using Business Calendars: Review Date

	S	M	Т	W	Т	F	S
		Augus	t 2019	Rate Revie	w Date 1	2	3
	4	5	6	7	8	(0	10
Rate Change Anniversary Da	11 ate	12	13	14	15	16	17
	18	19	20 Rate Chan	ge Date	22	23	24
	25	26	21	28	29	30	31
	1	y 2	3	4	5	6	7
Confidential Information -	For the use of Mo	Cracken Custome	rs only.				

Using Business Calendar – Rate Review Date & Rate Change Date

Rate Information
Monthly or Daily Review: (M) MONTHLY ▼
Rate Change Frequency: 1
Look Back Method: (B) BACK ▼
Look Back Days For Rate Reviews: 20
Business Calendar: MFS BUSINE (001) ▼
Use Business Calendar: Review Date: YES (Y) ▼
Rate Review Date: 08/05/2019
Use Business Calendar: Change Date: YES (Y) ▼
Business Calendar Options: ▼
Rate Change Date: 09/03/2019
Rate Chg Anniversary Date: 09/01/2019
Original Index %: .000000000000

Using Business Calendars: Review Date and Rate Change Date



Rate Changes

- Individual Rate Changes
 - Tool in the Adjustable Loan Module
 - Individual Loan
 - Enter Loan #
 - Effective Date
 - Rate
 - Investor's Net Yield and Service Fee Rates
 - Loan doesn't have to be adjustable
 - Can input a date into the future

Account #: 150015001 Demo arm

Effective Date: 00/00/0000

New Annual Percentage Rate %: .000000000000 Current Annual Percentage Rate %: .0000000000000

-Investor Rate Information

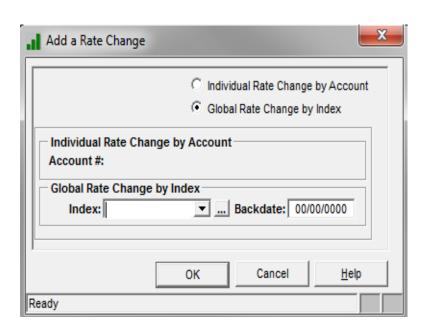
Inv #	Inv Name	Current Net Yield Rate %	Current Serv Fee Rate %	Current Guar Fee Rate %	Curent Exc Yield Rate %	New Net Yield Rate %	New Serv Fee Rate %	New Excess Yield Rate %	
800	D2 INV 800	4.14500000000000	.1250000000000	.00000000000000	.0000000000000	.000000000000	.1250000000000		

Rate Changes

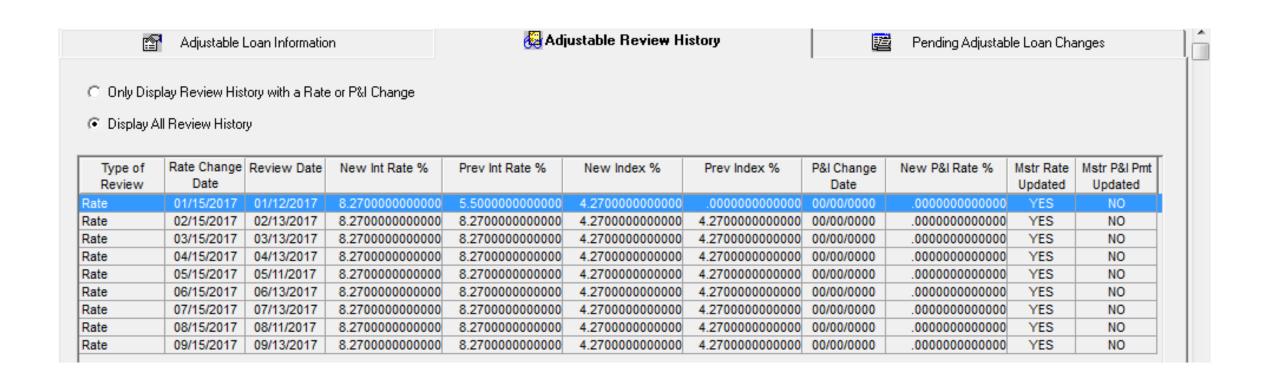
- Global Rate Changes
 - Add rate and date to the Index table
 - Rate Changes
 - Index
 - Backdate



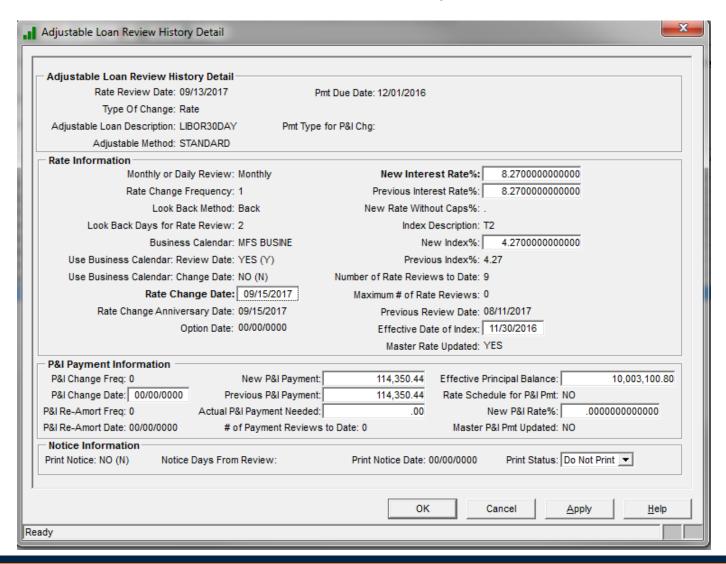
- Added to work file
- Rate Review is performed at beginning of dayend
- Interest adjustments will be created



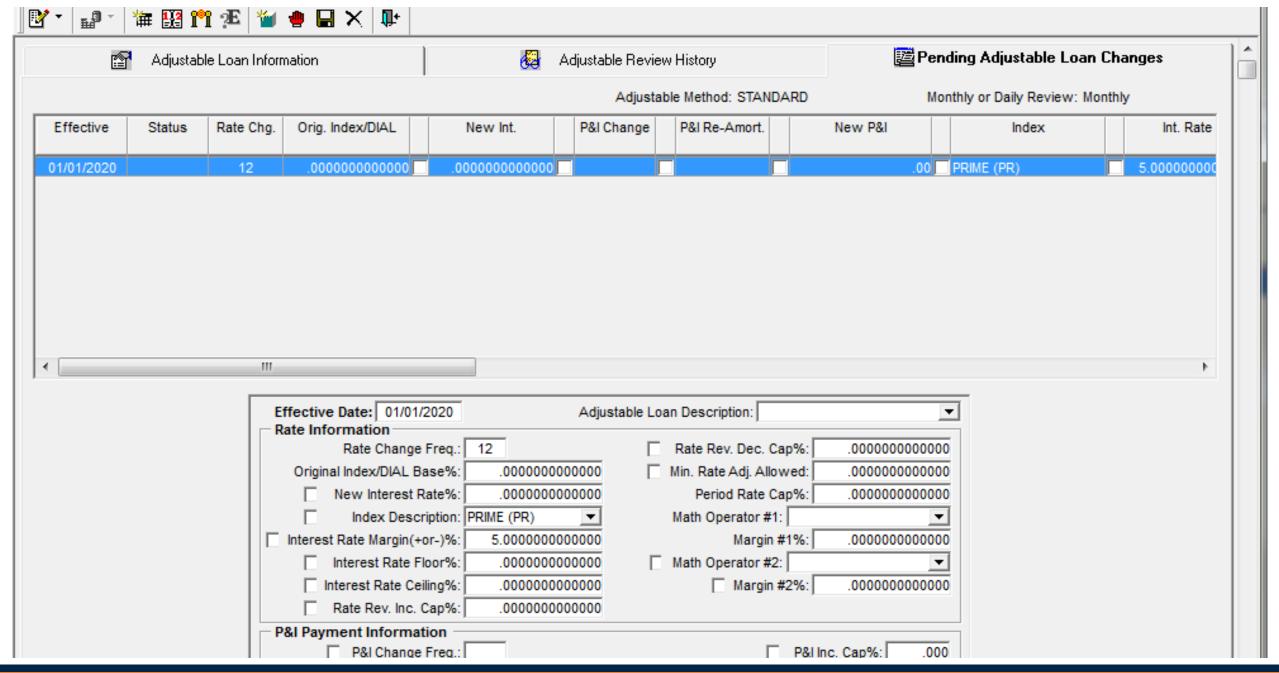
Adjustable Review History



Adjustable Review History



- Future changes to Adjustable Loan Information
- Similar to Pending Changes for the Master File
- Checkboxes allow you to change a field to blank or 0



Reports

Daily Supervisor Messages – MB442

- Review daily!!
- Interest has stopped accruing
- No receivable found
- Warnings
- Information Only

Reports

- MB173 Series
 - 2 sets in every dayend
 - Backdated
 - Rate Review
 - Summary by Review Frequency
 - LRPMB173
 - Exception List
 - MBEXCEPT
 - Loans Reviewed
 - MBRTRVU2
 - Method 'E' Loans
 - MBRTRVU1
 - Rate and Payment Changes Processed
 - MB173E



What is New

What is New

- Negative Index functionality
- SOFR Compounding in Arrears
 - 4 new ARM method codes
 - New logic for Floors/Ceiling
 - Change in the deferred revenue
 - Backdated Rates new logic
- Compounding SOFR Interest Widget
- Adjustable Loan Widget
 - New Pending ARM changes

Negative Index

- In Release 19E you now have the ability to enter an index rate that is less than or equal to zero.
- Strategy will track the Index Rate just as it does now, based on the high and low values defined in System Control.
- The system change allows the low value in System Control to be negative as well as the Current and Previous Index % Values in the Adjustable Loan module, and the Index tables.
- Should the Index plus any margins calculate a new Interest Rate less than zero, Strategy will set the Interest Rate to Zero.
- At no time, will the Interest Rate used to calculate interest accruals fall below zero

4 new ARM methods

Method	Code	Description
Compounding the Rate Simple Margin	6	 Uses Compounding in Arrears Rate 1 Calculation. Only a simple margin is considered. For new loans using Compounding in Arrears, Compound the Rate
Two Ops Compound % Simple Margin with Spread Adjustment	Т	 Uses Compounding in Arrears Rate 1 Calculation – Simple Margin and a Spread Adjustment Intended for existing loans transitioning from LIBOR, Compound the Rate
Compounding with the Balance Simple Margin	7	 Uses Compounding in Arrears Rate 2 Calculation. Only a simple margin is considered. Intended for new loans using Compounding in Arrears, Compounding with the Balance
Two Ops Compound% Simple Margin with Spread Adjustment	3	 Uses Compounding in Arrears Rate 2 Calculation – both Simple Margin and a Spread Adjustment are considered. Intended for existing loans transitioning from LIBOR, Compounding with the Balance

Loan Requirements

- Loan Payment Type must be:
 - G (Negative Amortization Allowed),
 - ∘ I (Interest Only); or
 - Q (Fixed Principal plus Interest)
- Cannot use Due Date Bill (Billing Cycle cannot be 'D')
- Cannot be Interest Basis Code A60 (30/360)
- DIAL Type must be '0' if using Compounding in Arrears

Loan Requirements

- Must be a Daily Reviewable Adjustable-Rate Loan, Frequency 1
 - Monthly or Daily Review set to Daily
 - Change Frequency set to '1'
- Use Business Calendar for Change Date must be 'Y' if Adjustable Method is either 'T' '3' '6' or '7' and Lookback Days is > 0.
- When using Adjustable Methods 'T' or '3', Operator #1 and Operator #2 must both be 'A' for Add

How Strategy calculates compounding in arrears

- The new Adjustable Rate methods call a new program to do the calculations for loans using the Compounding in Arrears Formula Codes.
 - The index rate is compounded using the compounding method dictated by the selected Adjustable Loan Method
 - Compounding the Rate (6 or T)
 - Compounding the Balance (7 or 3)
 - The margin and spread adjustment are calculated on a simple interest method
- Strategy saves the Total Daily Compounded Accrued Interest and all the components used to calculate that value in the new file PCMPNDSOFR

Compounding the Rate – Rate 1 Calculations

Result	Calculations
Field in PCMNPDSOFR	
Effective Rate	# of Business Days * ((Interest Rate less the margin less the spread adjustment) /number of
QZEFFRT	days in year for interest basis code)
Compounded Rate	((1 + (Effective Rate/100)) * (1 + (Prior day Compounded Rate/100)) – 1) * 100
QZCMPDR	
Compounded Rate Accrued Interest	(Unpaid Principal Balance * Compounded Rate) / 100
QZINDACL	
Effective Margin Rate	# of Business Days * Margin Rate /number of days in year for Interest Basis Code
QZFMARG	
Simple Margin Accrued Interest	((Effective Margin Rate * Unpaid Principal Balance) / 100)/# of Business Days
QZMRGACL	
Effective Spread Adjustment Rate	# of Business Days * Spread Adjustment Rate / number of days in year for Interest Basis Code
QZFSPADJ	
Spread Adjustment Accrued Interest	((Effective Spread Adjustment Rate * Unpaid Principal Balance) / 100)/# of Business Days
QZSPRACL	
Total Accrued Interest on Compounding Rate,	(Simple Margin Accrued Interest * # of Business Days) + Compounded Rate Accrued Interest +
Margin & Spread Adjustment	(Spread Adjustment Accrued Interest * # of Business Days)
Daily Compounded Rate Accrued Interest	(Compounded Rate Accrued Interest - Compounded Rate Accrued Interest of Prior Day)/# of
	Business Days
Total Daily Accrued Interest	Simple Margin Accrued Interest + Spread Adjustment Accrued Interest + Daily Compounded
QZDLYTOT	Rate Accrued Interest

Compounding the Balance – Rate 2 Calculations

Result	Calculations
Effective Rate QZEFFRT	# of Business Days * ((Interest Rate less the margin less the spread adjustment) /number of days in year for interest basis code)
Compounded Rate Accrued Interest QZINDACL	(Unpaid Principal Balance *(Effective Rate/100)) + ((1+ (Effective Rate/100)) * Accrued Interest of Prior Day)
Effective Margin Rate QZFMARG	(# of Business Days * Margin Rate) / number of days in year for interest basis code
Simple Margin Accrued Interest QZMRGACL	((Effective Margin Rate * Unpaid Principal Balance)/100)/* # of Business Days
Effective Spread Adjustment Rate QZSPRADJ	(# of Business Days * Spread Adjustment Rate)/number of days in year for Interest Basis Code
Spread Adjustment Accrued Interest QZSPRACL	((Effective Spread Adjustment Rate * Unpaid Principal Balance)/100)/# of Business Days
Total Accrued Interest on Compounding Rate, Margin and Spread Adjustment	Compounded Rate Accrued Interest + (Effective Margin Accrued Interest * # of Business Days) + (Effective Spread Adjustment Accrued Interest * # of Business Days)
Daily Compounded Rate Accrued Interest	(Compounded Rate Accrued Interest – Compounded Rate Accrued Interest of Prior Day)/# of Business Days
Total Daily Accrued Interest QZDLYTOT	Simple Margin Accrued Interest + Spread Adjustment Accrued Interest + Daily Compounded Rate Accrued Interest

Business Calendar Logic

- For normal processing (Monday through Thursday without any holidays) the # of business days would be '1'
- For processing over a weekend (Friday through Sunday) the # of business days would be '3'
- The # of business days is adjusted for holidays (based on the Calendar you identify to be used for SOFR Compounding in Arrears). For example, if you had a Monday holiday the # of days on Friday would be 4 (processing for Friday through Monday).

Zero Interest Rate or Negative Interest Rate

- If the All-in-Rate is Zero:
 - Interest, Compounded Interest, Margin Interest and Spread Adjustment Interest will all be Zero
- If the Calculated Index Rate is a negative number:
 - The Compounded Interest will be calculated using the negative Calculated Index Rate
 - The Margin and Spread Adjustment Interest will be calculated (simple interest)
 - The Total Interest will be calculated: Total Interest = Compounded Interest + Margin Interest + Spread Adjustment Interest
 - If the Total Interest is a positive number: the Interest amounts calculated will be used.
 - If the Total Interest is a negative number: the Total Interest, Compounded Interest, Margin Interest and Spread Adjustment Interest will all be set to zero

Floors

- The information for Floor applies to loans using SOFR Compounding in Arrears that have a Margin and Spread Adjustment (a loan that transition from LIBOR to SOFR)
- If there is a Floor for the loan, the Floor (from the loan agreement) plus the Margin would be entered into the Floor field in the ARM record (the Spread would not be included).
- If the ARM Floor is not zero, AND there is no Floor Expiration Date OR the Floor Expiration Date has not expired, Calculate the 'SOFR Floor
 - Floor minus Margin minus Spread = calculated SOFR FLOOR
- INDEX equal to the 'higher' of the calculated SOFR Floor or the INDEX

Ceilings

- The information for the ceiling applies to loans using Compounding in Arrears with a Margin and Spread Adjustment (a loan that transition form LIBOR to SOFR)
- If the ARM Ceiling is not zero, AND there is no Ceiling Expiration Date OR the Ceiling Expiration Date has not expired, Calculate the 'SOFR Ceiling'
 - Ceiling minus Margin minus Spread = calculated SOFR Ceiling
- Set INDEX equal to the 'lower' of the calculated SOFR Ceiling or the INDEX calculated at this point

Deferred Revenue and Expense

- The Level Yield Calculation has been modified to calculate the Effective Interest Rate for deferred items as follows:
 - Current Interest Rate from the PARM record less the Margin (Interest Rate Margin % or Margin #1 %) and less the Spread Adjustment (Margin #2 %) if applicable.
 - The Effective Rate is then used to calculate the Compounded Rate Accrued Interest using either the Compounding the Rate or Compounding the Balance methods.
 - The system then adds the Compounded Rate Accrued Interest to the Simple Margin Accrued Interest and the Spread Adjustment Accrued Interest to arrive at the Total Accrued Interest

Backdated Rates

GLOBAL RATE CHANGE BY INDEX

 The Index used to calculate the Effective Rate will be the New Interest Rate % minus the Interest Rate Margin%, minus the Margin #1% and minus the Margin #2 %.

INDIVIDUAL RATE CHANGE BY ACCOUNT

- The New Interest Rate % entered should be the All-in-Rate inclusive of the Index, Margin, and Spread Adjustment.
- The Individual Rate Change program will take the new interest rate % that was entered, subtract the Margin and Spread Adjustment and that will be used as the Index to calculate the Effective Rate

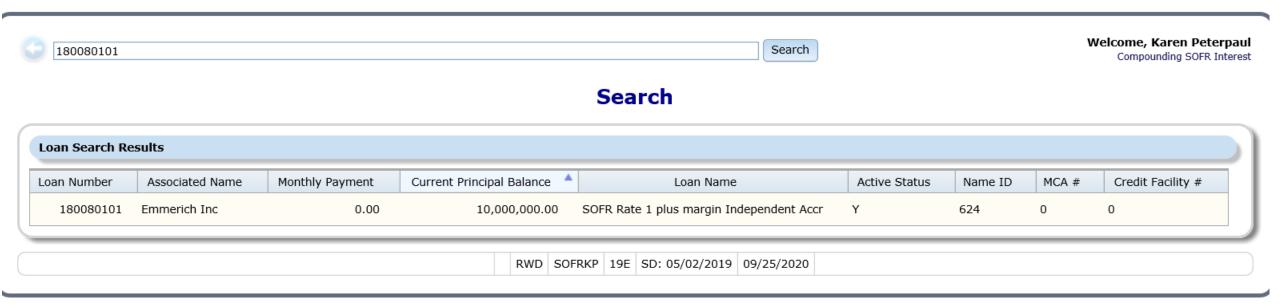
Calculating Service Fee, Guarantee Fee and Net Yield

- The Daily Net Yield Amount or Net Yield Per Diem (PIQNYAMT) will be calculated using the Daily Interest calculated for the loan (PCMPNDSOFR/QZDLYTOT) multiplied the Investor's Percentage Owned (PIMST/IMPP), less the per diem for the Service Fee (PIDBNR/IQSRVAMT) and the per diem for the Guarantee Fee (PIDBNR/IQGFEEAMT).
- At the end of the period the Net Yield, Service Fee, and Guarantee Fees will be equal to the sum of the per diems in PIDBNR records for the Loan/Investor for that remittance period.

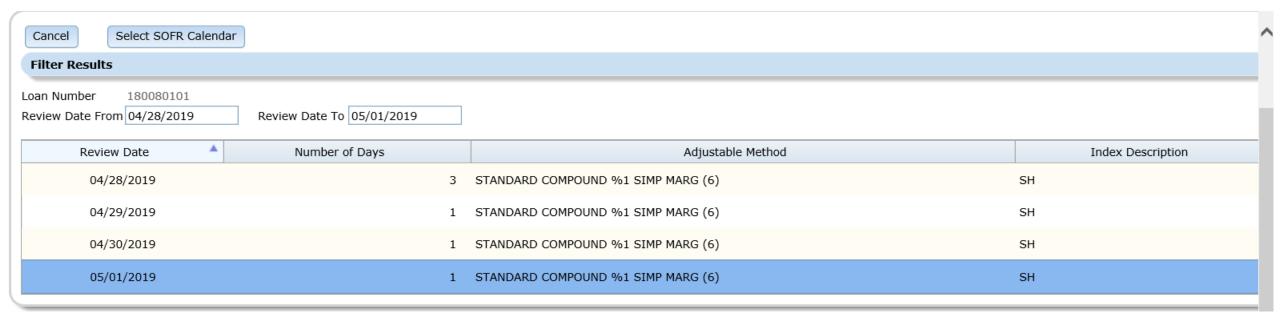
Compounding SOFR Interest Widget



 The first page of the application is the loan search page; this is the same loan search used in many other web applications. When a loan is selected the user will be redirected to the Compounding SOFR Interest page.



- Click on the loan you want to view
- Use the Review Date From and Review Date To fields to filter the Result Set to your period of interest

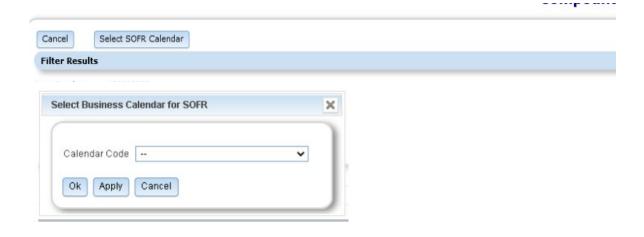


• Selecting a row in the results grid displays the Compounding Interest Detail outlining the components of the calculation for that day

O-	4/29/2019			1	STANDARD COMPOUND %1 SIM	P MARG (6)		SH	
0-	4/30/2019			1	STANDARD COMPOUND %1 SIM	P MARG (6)		SH	
0	5/01/2019			1	STANDARD COMPOUND %1 SIM	P MARG (6)		SH	
Compound	ing Interest D	etail							
Loan Number	180080101		Review Date	04/30/	2019				
Number of Days	1		Index Description	SH		Adjustable Method	STANDARD COMPOUND %1 SIMP MARG (6)	
interest Basis Code	B66		Index		2.76	Margin	0.5	Spread Adjustment	
Effective Rate		0.00766666666667	Effective Margin		0.0013888888889	Effective Spread Adjustment	0		
Compounded Rate	l	0.20636514767942	Scheduled Balance		10,000,000.00	,			
Index Accrual Amount		20636.514767942284	Margin Accrual Amount		138.88888888888889	Spread Adjustment Accrual Amount	0		
Daily Compounded Accrued Interest	ı	768.19	Total Daily Compounded Accrued Interest		907.08				

SOFR CALENDAR

- The Select SOFR Calendar button at the top of the page, opens a dialog box allowing the user with appropriate security to select the business calendar to be associated with SOFR Compounding in Arrears.
- At least one record is required in PSOFRCAL to correctly reference holidays when compounding



NOTE: The ARRC recommends the use of the SIFMA calendar in conjunction with SOFR indices. The holidays referenced in the SIFMA calendar can be found at https://www.sifma.org/resources/general/holiday-schedule/. U

Changes to the Pending ARM Change File

- Modifications to PARMX file to add fields that may be required to update Adjustable Rate loans
- New Portal Widget, Adjustable Loan, to view Pending Adjustable Loan detail
- New MaTi Template for uploading PARMX values in bulk Fields added to PARMX can only be viewed in the Adjustable Loan Widget
- 41 fields have been added

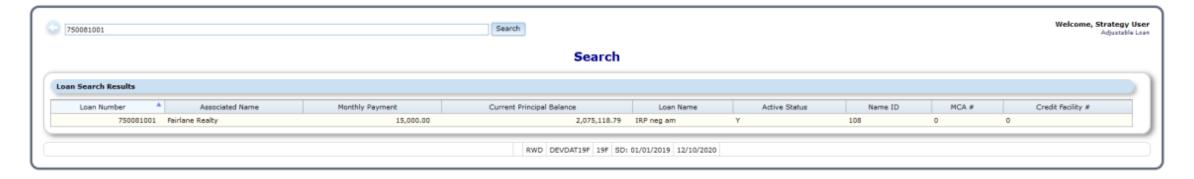
Adjustable Loan Widget



Adjustable Loan Widget



Accessed from the Portal, the new widget opens with a Search screen where users can search and select the appropriate loan to view, add, or update Pending Adjustable Loan Changes by clicking on the appropriate record.



A new window displays Pending Adjustable Loan Changes for the selected loan by Effective Date.



If the loan does not have an adjustable loan information record an error message displays above the search results.



If the loan does not have any pending adjustable loan changes entered the search results displays a message 'No data available in table.'



Clicking the appropriate record in the Pending Adjustable Loan Changes window opens the Pending Adjustable Loan Detail window

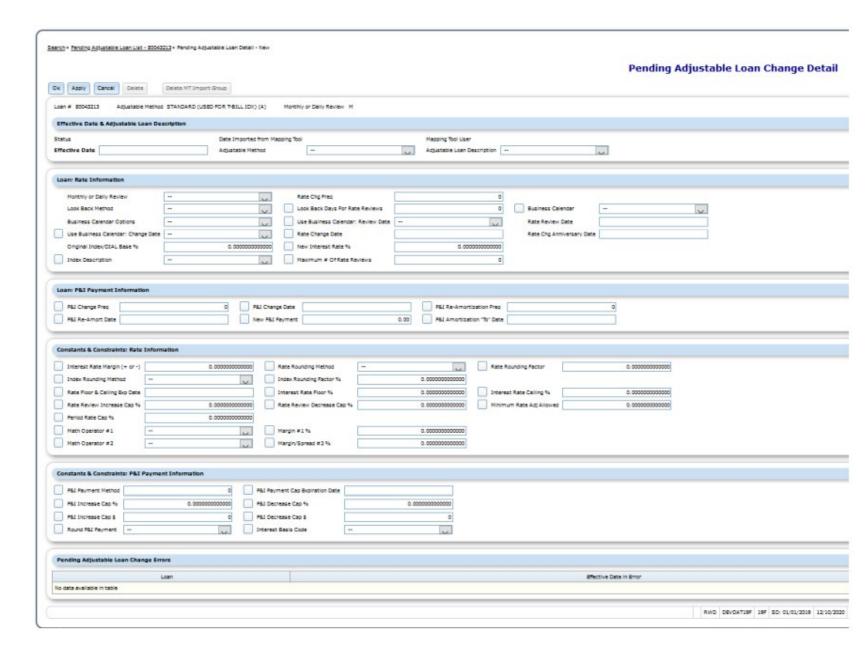


Pending Adjustable Loan Changes Detail Screen

Appropriate security is needed to Create a new change record, modify an existing record, or delete an existing change record.

This page is broken into 6 different sections

- Effective Date & Adjustable Loan Description,
- Loan: Rate Information
- Loan: P&I Information
- Constants & Constraints: Rate Information
- Constants & Constraints: P&I Information
- Pending Adjustable Loan Change Errors.



Section 1 of the Pending Loan Change Detail page

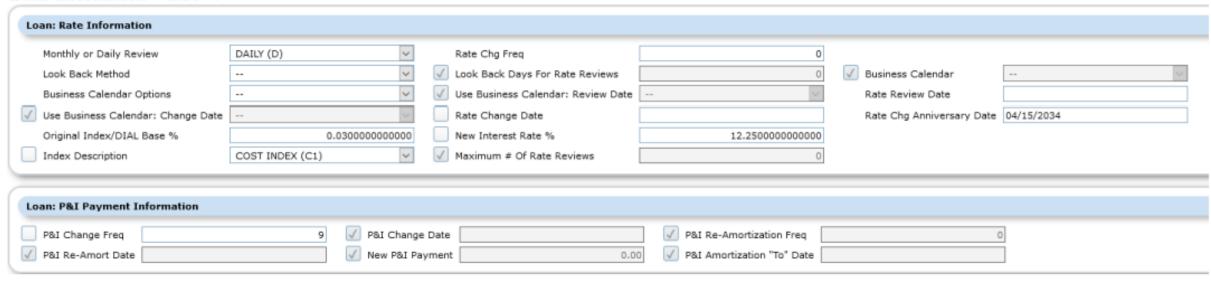
The top section or header of the Pending Adjustable Loan Change Detail page displays the Loan Number, Adjustable Method, and Monthly or Daily Review in the PARM file as read only.

The Effective Date & Adjustable Loan Description display below the blue bar labeled as such. They include the Status of the Pending Adjustable Change Detail record as well as the Date Imported and User if the information in the record was uploaded via the Mapping Tool.

Loan # 80043213	Adjustable Method STANDARD	(USED FOR T-BILL IDX) (A) Mor	Monthly or Daily Review M				
Effective Date & A	djustable Loan Description						
Status		Date Imported from Mapping Too	I	Mapping Tool User			
Effective Date 12/1	11/2020	Adjustable Method	STANDARD (USED FOR T-BILL IDX	Adjustable Loan Description	DAILY REVIEW (DY)	V	

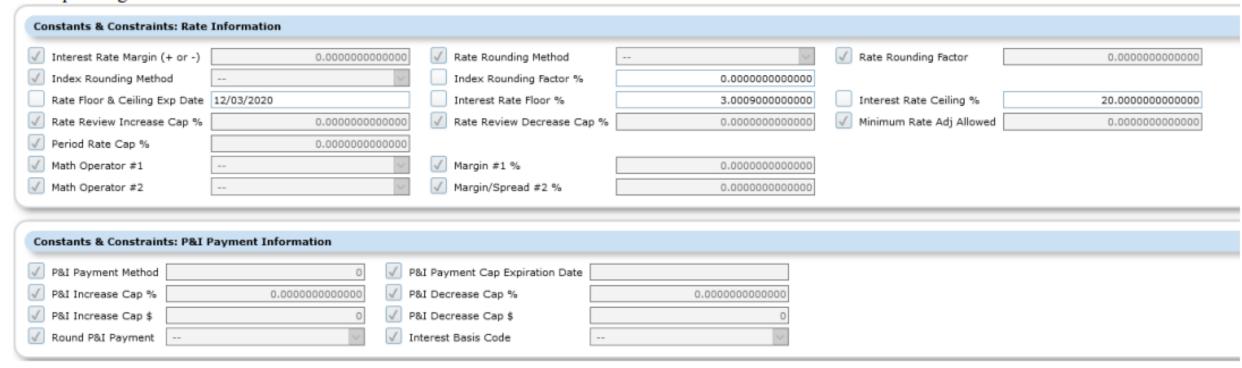
Sections 2 & 3 of the Pending Adjustable Loan Changes page

Loan: Rate Information and Loan: P&I Information sections are used to apply future changes to the fields in the corresponding sections on the Adjustable Loan Information window.



Sections 4 & 5 of the Pending Adjustable Loan Changes page

The Constants & Constraints: Rate Information and Constants & Constraints: P&I Information are used to apply future changes to the fields in the corresponding sections on the Constants & Constraints window.



Sections 6 of the Pending Adjustable Loan Changes page

The Pending Adjustable Loan Change Errors display the Loan Number, Effective Date, and Error messages found in relation to any Pending Adjustable Loan Change records on the loan. The errors displayed may refer to the record being viewed or any other Pending Adjustable Loan Changes scheduled for the loan.

Pending Adjustable Loan Change Errors				
Loan	Effective Date in Error	Error Message		
750081001	01/05/2019	P&I change frequency must be zero		
750081001	01/05/2019	P&I Payment Change Date is required if P&I Payment Change Frequency is not zero		
750081001	01/05/2019	P&I Amort To Date is required if Payment Chg Freq is not 0 and account is a Balloon Loan		

When a record is changed, added, or deleted, Strategy calls the edit program. If there are still errors, then the error message will display on the Pending Adjustable Changes page if OK was clicked. If Apply was clicked to remain on the existing Pending Adjustable Loan Change Detail page, the Pending Adjustable Loan Change Errors grid at the bottom of the page will be repopulated with the errors.

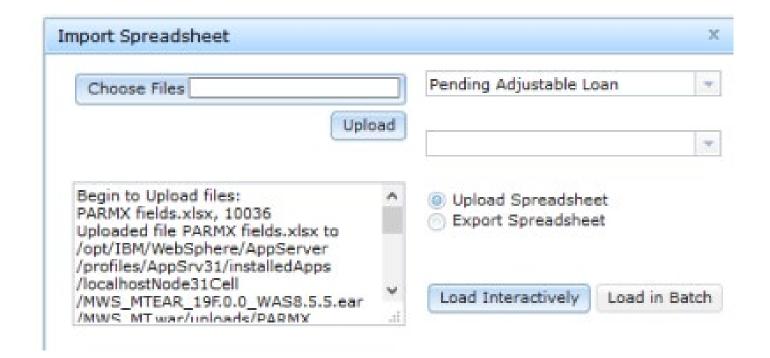
Day End Processing

- Day end runs on the effective date of the PARMX record
- If there is a "Y" in a checkbox field, the corresponding Adjustable Loan field (PARM/PARMH) will be updated with a zero or blank (depending on the data type).
- Any other numeric, date, or alphanumeric fields will be updated as necessary based on the values entered in PARMX.
- The day end program (MB151A) updates a status field in PARMX with an "E" or a "U".
 - If there were no errors and the update took place the status will become a "U" (updated).
 - If there were errors and the update did not take place the status will become an "E" (error).

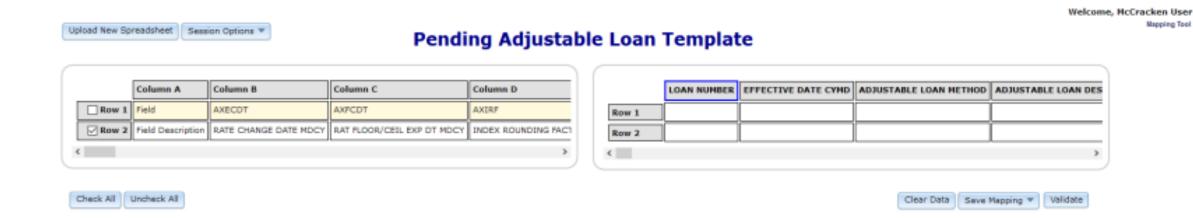
New changes to the Mapping Tool (MaTi)

- New Mapping Tool for the Pending Adjustable Loan Changes
- Ability to delete records uploaded via the Mapping Tool that have a blank record Status

A new Mapping Tool template is available to assist with loading Pending Adjustable Loan Changes.



- Pending Adjustable Loan Changes is an insert only template containing fields from PARMX.
- Required fields are bolded and outlined in Blue. (Loan Number and Effective Date)
- All fields that are to change on the same Effective Date should be entered in the same record (or spreadsheet row if uploading via MaTi). There can only be one Pending Adjustable Loan Changes record for a loan for that Effective Date.
- Date fields must be formatted as a date in the spreadsheet (mm/dd/ccyy or mm/dd/yy)



Deleting Records Imported with MaTi

- Ability delete records uploaded via the Mapping Tool that have a blank record Status
- Users can access the group delete functionality from the Pending Adjustable Loan Change Detail in the Adjustable Loan widget.
- A Delete MT Import Group button appears on the Pending Adjustable Loan Change Detail page.



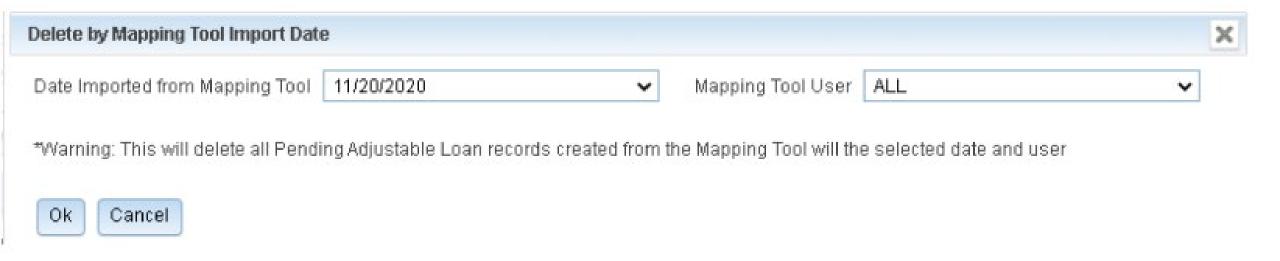
Delete MT Import Group

The Delete MT Import Group button will be available for use if:

- The User has security to the feature
- The active Pending Adjustable Loan Change Detail record was uploaded via the Mapping Tool
- There is no lock on the page.

Deleting Imported Records with Blank Record Status

Delete MT Import Group

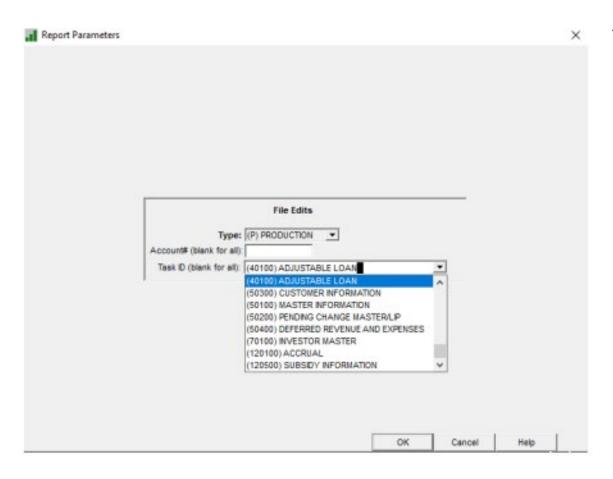


This window allows users with appropriate authority to define the group of records to be deleted using the Date Imported from Mapping Tool and Mapping Tool User

When the Mapping Tool User is set to 'ALL', Strategy will delete all PARMX records imported by the Mapping Tool on the selected Mapping Tool Import Date, that have a blank record Status

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New file Edits



Adjustable Loan Edits and Master File Edits (new changes)

The edits are run from Loan Entry before a Loan is passed

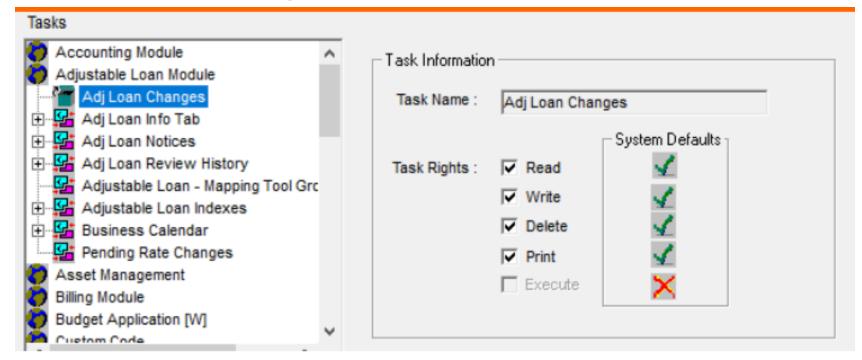
Can be run over the Production version of the files from the Reports window.

Can Add CGR100CAM to the day end job stream right before CMB401Z1. This will generate the Adjustable Loan and Master Info Edit Reports in day end for daily review.

Available in Release 20

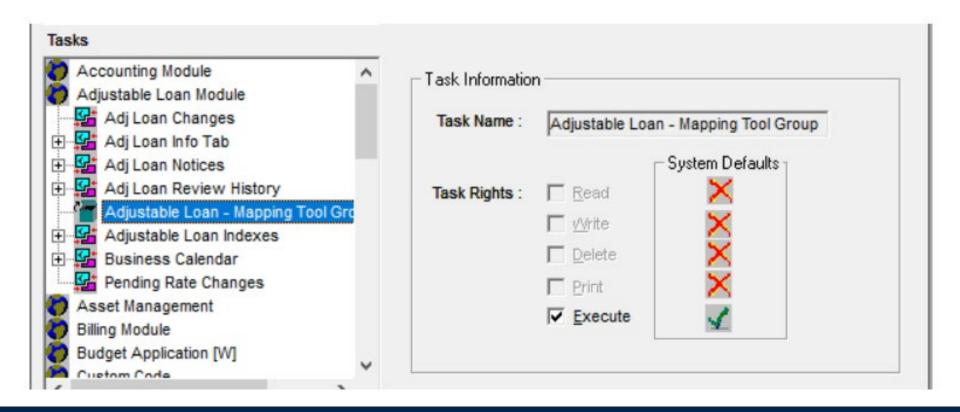
Security Changes

 Users with authority to create Adjustable Loan Changes can access the Adjustable Loan widget to view Pending Adjustable Loan Changes.



Security Changes

- Delete MT Import Groups has additional security.
 - Adjustable Loan Mapping Tool Group Delete (W)





Transitioning to SOFR

Preliminary activities

- Create New SOFR values Associated with Adjustable Loans
 - Used to delineate the types of SOFR products and the SOFR index values
 - ARM Type Code or Adjustable Loan Description
 - Adjustable Loan Indexes
- Review Formula Methods
 - Option P used for spread adjustment

Adjustable Methods To accommodate the Spread Adjustments

Term SOFR	Adjustable Method P	Margin 1 = Margin Margin 2 = Spread Adjustment	
Simple SOFR in Arrears	Adjustable Method P	Margin 1 = Margin Margin 2 = Spread Adjustment	
SOFR Compounded in Advance	Adjustable Method P	Margin 1 = Margin Margin 2 = Spread adjustment	
Compounded SOFR in Arrears	Adjustable Method T	Compounding the Rate 2 Ops (margins)	
Compounded SOFR in Arrears	Adjustable Method 3	Compounding the Balance 2 Ops (Margins)	

- Daily Simple Avg SOFR in Arrears with Principal
- Compounding in Arrears with Principal
 - If Payment Type currently is a 'P' on STRATEGY must change to 'G'
 - Allows for Negative Amortization
 - Neg Am % Allowed

Use Business Days for review

STRATEGY will recalculate the Review Date based on the Lookback Days

Adjustable Method – Two Ops (P)

jus o ts	Adjustable Loan Information New Loan: NO (N) Adjustable Loan Desc: SOFR (SF) Adjustable Method: TWO OPS (P)		Payment Type: REG AMORT (P) Contract Type: ARM (A)		
	Rate Information Interest Rate Margin %:			Rate Review Increase Cap %:	.00000000000000000000000000000000000000
	Rate Rounding Method:		▼	Rate Review Decrease Cap %:	
	Rate Rounding Factor %:		_	Minimum Rate Adj Allowed %:	
	Original Interest Rate %:	8.000000000	00000	Starting Rate for This Period %:	,
	Index Rounding Method:		▼	Period Rate Cap %:	
	Index Rounding Factor %:			Math Operator #1:	Addition ▼
Ш	Rate Floor & Ceiling Exp Date:	00/00/0000		Margin #1 %:	1.2500000000000
	Interest Rate Floor %:	7.00000000	00000	Math Operator #2:	Addition ▼
	Interest Rate Ceiling %:	12.00000000	00000	Margin #2 %:	.500000000000
				Status:	_
	P&I Payment Information — P&I Payment Method:			Round P&I Payment:	-
۱,	P&I Payment Cap Expiration Date:			P&I Increase Cap Amount:	
	P&I Increase Cap %:			P&I Decrease Cap Amount:	
	P&I Decrease Cap %:	.000		Master File Interest Basis:	360/30 (A60)
	Minimum Pmt Adj Allowed:			Interest Basis for P&I Calc:	

Use Math Operator #1 and Margin #1% for Margin

Use Math Operator #2 and Margin #2% for Spread Adjustment

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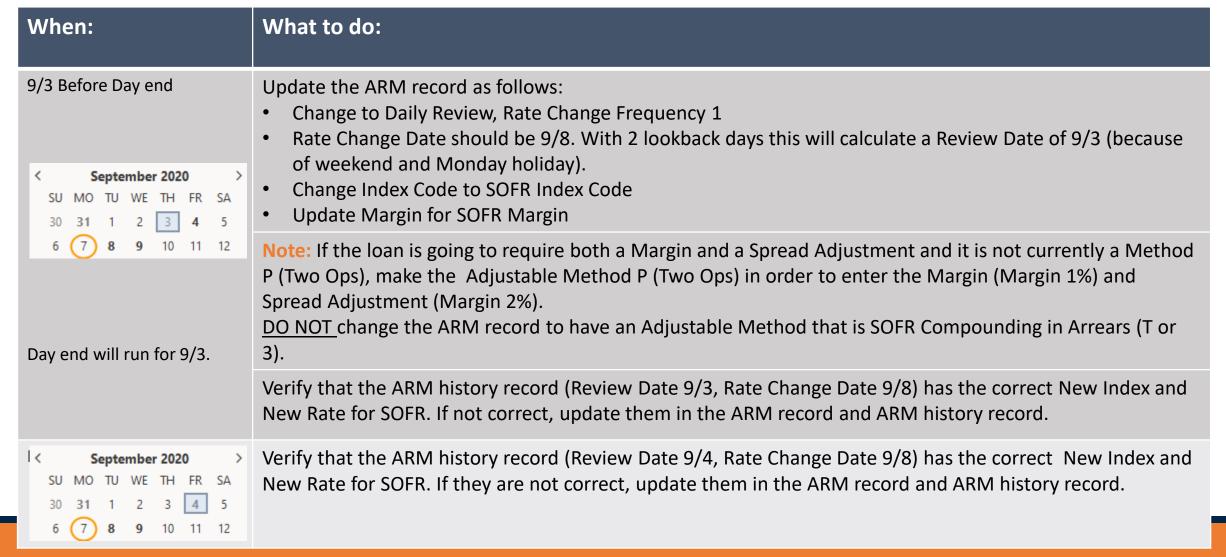
Transitioning an existing loan to SOFR Compounding in Arrears with Lookback Days

• Example Loan: Currently an adjustable loan with a payment anniversary date of the 10th of the month. The loan is set to transition to SOFR Compounding in Arrears on 9/8/2020 using 2 Lookback Days and a Business Calendar for the Rate Review Date and the Rate Change Date.



Using 2 Lookback Days with a standard US Business Calendar the loan will have its first SOFR review on the 3rd of September. Monday, September 7th is a Holiday. The loan will transition to SOFR on 9/8/2020. However, with the lookback days, weekend, and holiday the first SOFR Rate Review will take place on September 3rd.

So, from September 3rd through September 7th, the loan will commence with Daily SOFR Compounding in Arrears reviews, while continuing all other processing in Strategy as a LIBOR loan. Interest is calculated differently for LIBOR vs. SOFR Compounding in Arrears.



Transitioning an existing loan to SOFR Compounding in Arrears with Lookback Days

For purposes of this example, the steps consider the example of a loan transitioning where the new Index takes effect on 9/8 Confidential Information - For the use of McCracken Customers only.

With a rate review happening on 9/3

When:	What to do:
9/8 Before Day end < September 2020 > SU MO TU WE TH FR SA	SOFR Compounding in Arrears is going to go into effect. Update the Adjustable Method to the correct SOFR Compounding in Arrears Method based on the rate calculation being used. • Margin and Spread Adjustment (T or 3) • Simple Margin (6 or 7)
30 31 1 2 3 4 5 6 7 8 9 10 11 12	The Rate Review will occur during day end and creates the ARM History record that will have the SOFR Method: Rate Review Date 9/8 and Rate Change Date 9/10.
Day end will run for 9/8.	The accrual for 9/8 will be calculated using the new interest calculation for compounding in arrears (and the rate, margin, spread adjustment (if applicable) from the ARM History record with a Review Date of 9/3 and a Rate Change date of 9/8.
Day end will run for 9/9 September 2020 > SU MO TU WE TH FR SA 30 31 1 2 3 4 5 6 7 8 9 10 11 12	Review will happen and create ARM History record that will have the SOFR Method: Review Date 9/9 Rate Change Date 9/11 The accrual for 9/9 will be calculated using the new interest calculation for compounding in arrears (and the rate, margin, spread (if applicable) from the ARM history record with a Review Date of 9/4 and a Rate Change Date of 9/9. The loan will continue to review daily with the Review Date being the 2 Business Days ahead of the Rate Change Date

Transitioning an existing loan to SOFR Compounding in Confident Confidence of the Co

Questions