

**WEBINAR SERIES** 

# How to use STRATEGY for the SOFR Transition

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#### Meet the team.



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### Today you will learn:

- 1. The latest update on the 4 interest methodologies that McCracken and customers will need to prepare for
- 2. How these scenarios will impact STRATEGY
- 3. Actions STRATEGY users need to take in order to be set up for success for the fast-approaching LIBOR to SOFR transition

### Before we begin, a few reminders.



Submit your questions anytime.



This webinar will be recorded.



Complete the survey.



Our agenda.











#### McCracken Involvement

- We have been participating with the ARRC (Alternative Reference Rates Committee) meetings
  - The ARRC is a group of private-market participants convened by the Federal Reserve Board and the New York Fed to help ensure a successful transition form LIBOR to a more robust reference rate
  - Recommended SOFR
- Part of the periodic calls
- Participating in the vendor workshops with the LSTA (Loan Syndications and Trading Association)

#### What is SOFR?

- Secured Overnight Financing Rate
  - Was selected as the recommended replacement to LIBOR in 2017
    - There is a one day lag in the published date vs effective date
      - Example The SOFR Index effective Monday, November 30th, 2020 will be published at 8:00 am on Tuesday, December 1st, 2020.
    - Published by the Federal Reserve Bank of New York
      - https://apps.newyorkfed.org/markets/autorates/SOFR

#### **Secured Overnight Financing Rate**

|            |           | PERCENTILES |           |           |           |                       |
|------------|-----------|-------------|-----------|-----------|-----------|-----------------------|
|            | RATE      | 1ST         | 25TH      | 75TH      | 99TH      |                       |
| DATE       | (PERCENT) | (PERCENT)   | (PERCENT) | (PERCENT) | (PERCENT) | VOLUME (US\$BILLIONS) |
| 2019-12-30 | 1.54      | 1.47        | 1.52      | 1.60      | 1.67      | 1,036                 |
| 2019-12-27 | 1.53      | 1.47        | 1.50      | 1.58      | 1.64      | 1,038                 |
| 2019-12-26 | 1.52      | 1.47        | 1.50      | 1.57      | 1.64      | 1,000                 |
| 2019-12-24 | 1.52      | 1.45        | 1.50      | 1.57      | 1.64      | 1,006                 |
| 2019-12-23 | 1.52      | 1.48        | 1.50      | 1.57      | 1.64      | 1,027                 |
| 2019-12-20 | 1.53      | 1.47        | 1.49      | 1.57      | 1.64      | 967                   |
| 2019-12-19 | 1.53      | 1.47        | 1.50      | 1.58      | 1.65      | 988                   |

#### **SECTION 2**



A Look at the 4 SOFR Interest Methodologies to Replace LIBOR

#### A Look at the 4 SOFR Interest Methodologies

- The 4 recommended methodologies to calculate interest
  - Forward Looking SOFR Term Rate
  - SOFR Compounded in Advance
  - Daily Simple Average SOFR in Arrears
  - SOFR Compounded in Arrears
- Spread Adjustment
  - Used for existing loans transitioning from LIBOR to SOFR indices

#### Forward Looking SOFR Term Rate

- Forward Looking SOFR Term Rate
  - Referencing a new rate
  - Would allow for the rate to be known at the start of the period
  - Does not exist today/Looking to have by the end of 2021
  - Strategy can handle once rate is published
  - Formula
    - Balance \* Rate /360 \* Number of Days

#### SOFR Compounded in Advance

- SOFR Compounded in Advance
  - Referencing a new rate
  - Would allow for the rate to be known at the start of the period
  - O Does not exist today/proposing to publish three compounded averages of the SOFR with options of 30-, 90-, and 180-calendar days in the first half of 2020
  - Strategy can handle once rate is published
  - o Formula
    - Balance \* Rate /360 \* Number of Days

### Daily Simple Average SOFR in Arrears

- Daily Simple Average SOFR in Arrears
  - Referencing new rate
  - Require the interest rate to be determined at the end of the accrual period
  - STRATEGY handles this today
  - Formula
    - Effective Rate
      - > # of days \* SOFR Rate/360
    - Effective Rate \* Principal Balance

#### SOFR Compounded in Arrears

- SOFR Compounded in Arrears
  - Interest rate to be determined at the end of the accrual period
  - Various ways to calculate Compounding in Arrears
    - Compounding the Rate
    - Compounding the Balance
  - STRATEGY currently has compounding functionality but changes are required to support daily compounding. Waiting on a decision from ARRC on the calculation.
  - This method will require contractual, operational and systems changes

#### SOFR Compounded in Arrears

One of the Proposed Interest in Arrears Methods

- SOFR Compounded in Arrears
  - Compounding the Rate
    - Original math that is published in the "A user's Guide to SOFR"
    - Assumes the Principal Is constant
  - Formula
    - Effective Rate
      - # of days \* SOFR Rate/360
    - Compounded Rate
      - ((1 + the Effective Rate) \* (1 + prior day Compounded Rate)-1) \*
        Principal Balance

### SOFR Compounded in Arrears

One of the Proposed Interest in Arrears Methods

- SOFR Compounded in Arrear
  - Compounding the Balance
    - Does not assume Principal will be constant
  - Formula
    - Effective Rate
      - # of days \* SOFR Rate/360
    - Compounded Balance
      - Principal Balance \* Effective Rate + (1 + Effective Rate) \* Prior days Total Interest

#### Spread Adjustment

- Spread Adjustment
  - Used when transitioning existing LIBOR loans to SOFR
  - A spread adjustment is meant to minimize the difference between LIBOR and SOFR
  - ARRC needs to perform its own analysis to determine its recommendations for what spread adjustment approach would be most appropriate for use in cash products
  - There had been talk about it being publish by Bloomberg

#### Summary

- Interest Methods Supported
  - Forward Looking SOFR Term Rate (once rate is published in 2021)
  - SOFR Compounded in Advance (once rate is published in 2020)
  - Daily Simple Average SOFR in Arrears
- SOFR Compounded in Arrears coming 1<sup>st</sup> quarter of this year

**SECTION 3** 

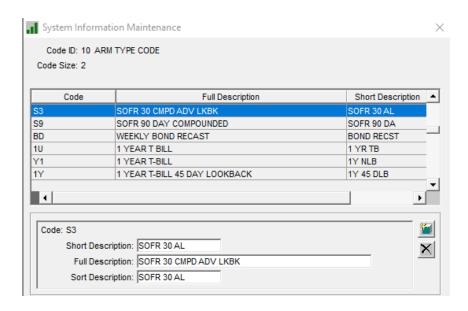
STRATEGY and SOFR

#### 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 Desc.
    - Adjustable Loan Indexes
- Review Formula Methods
  - Option P used for spread adjustment

#### SOFR ARM TYPE CODE

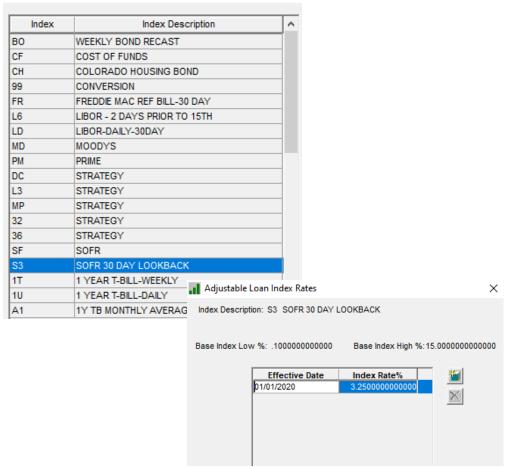
- STRATEGY System Information Table ID 10
  - Customer Defined
  - 2 Position Identifier
- Easily identify the different SOFR products in portfolio



#### **SOFR Indices**

- STRATEGY System
   Information Table ID I2
  - Customer Defined
  - 2 Position Identifier

Adjustable Loan Indexes



### Adjustable Method

- Method A Standard
  - Margin is added to Index
  - Can be positive or negative
- Method P 2 Operations
  - Index
  - Allows for 2 Margins and 2 Operators
  - Will accommodate the Spread Adjustment

#### Adjustable Methods

#### **New Loans**

- Use Method A
  - Forward Looking SOFR Term Rate
  - Daily Simple Avg SOFR in Arrears
  - Works with SOFR Compounded in Advance
  - Proposed SOFR Compounded in Arrears

#### **Transitioning Loans**

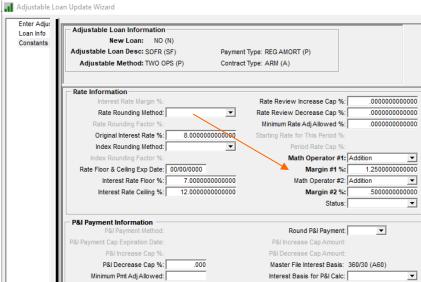
- Use Method P
  - Forward Looking SOFR Term Rate
  - Daily Simple Avg SOFR in Arrears
  - Works with SOFR Compounded in Advance
  - Proposed SOFR Compounded in Arrears

#### Adjustable Loan Record

- Existing loans will need to be maintained to update the Adjustable Loan Desc. to the new SOFR value
- Update the SOFR Index value on the Adjustable Loan Info screen
- Lookback days only need to change if the number of days are different from the existing LIBOR loan terms
  - Use Business Days for review
- Rate Change Date only needs to change if the date is different than the existing Rate Change Date
  - STRATEGY will recalculate the Review Date based on the Lookback Days

### Adjustable Loan Record

- If a Spread Adjustment is needed
  - Adjustable Method = P (Two Ops)
    - Math Operator 1/Margin 1 % must be populated
    - Math Operator 2/ Margin 2 % must be populated for the spread adjustment



#### Loan Administration Master File

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

Actions STRATEGY Users Should Take to Prepare for SOFR

**SECTION 4** 

#### Actions Strategy Users Should Take to Prepare for SOFR

- Need to determine your LIBOR loan population
- Understand the fallback language for each of these loans
  - What will the replacement for LIBOR be
    - If SOFR what Interest Methodology will you use
- What is the impact if the fallbacks have to be implemented
  - Will you need to amend contracts
  - Changes into the Strategy system
- Notifications to borrowers

**Additional Considerations** 

### **SECTION 5**

#### **Additional Considerations**

- Changes that need to be made in Strategy
  - What approach will you take
  - McCracken is looking to develop tools to assist with the changes
    - Mapping Tool
    - Navigator
- Billing
  - The timing of the statements for Compounding in Arrears or Daily Simple SOFR
  - Strategy has several options you can use today
    - Hold the interest adjustment after the bill has been printed and bill on the next statement
    - Due Date Billing
      - Bill in the Lookback period
      - At month end
    - Ability to e-mail billing statements when using Write Track

#### **Additional Considerations**

- Backdating
  - Strategy has backdating functionality today called Global Rate Change
    - Globally
    - Individual
- Familiarize yourself with the current functionality that the system has today
  - Daily review frequency
  - Adjustable Rate Method 2 Operations (P)

We are looking for input from you the customers on these items. We might need to get a separate working group together

#### Also Being Discussed

- A SOFR Index for custom periods
  - Looking to publish the index in the first half of 2020
  - The index is a compounding sequence which allows you to calculate compounding SOFR average over custom periods
  - This one hasn't been proven in our vendor meetings
  - Formula
    - (End Date of SOFR Index/Beginning Date of SOFR Index) \* (360/Number of Days)

# Questions?



Thank you for attending our webinar. Don't forget to:



Complete the survey.



Share the recording with your colleagues.



Attend our monthly webinars.



Contact McCracken if you'd like to learn more.

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