

Mortgage-Backed Securities Repackaging: User Guide

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Overview



A mortgage-backed security (MBS) is a collection (pool) of mortgages that are securitized or packaged as a security. As an MBS ages, the underlying mortgages get paid down or are removed from the pool because of, for example, default or refinancing. Rolling multiple MBS pools into one larger one can substantially reduce risk, as the default of a single loan will have a smaller effect on the whole.

This demo executes the process of "repackaging" an MBS to reduce risk by consolidating several pools of loans into a single security.

This Guide

This User Guide takes you step-by-step through MBS processing, executing a successful repackaging of a mortgage pool.

Note: This demo is designed to show successful conclusion of the MBS without exceptions or error conditions. A full production implementation would include additional features, handle errors and exceptions, and incorporate appropriate security controls.

Workflow

Roles and Responsibilities

Tasks are performed by following roles in the workflow.

Role	Responsibility
Mortgage Pool Holder	Propose a repacking of mortgage pools View new pools
Securitizer	Accept or reject a proposal
Market Operator	Settle repackages once proposed and accepted

Steps

The MBS Process workflow involves these steps:





- 1. **Propose Mortgage Pool Agreement**: As the Mortgage Pool Holder, propose a repackage of existing mortgage pools.
- 2. **Accept Proposal**: As the Securitizer, accept or reject the proposal.
- 3. **Settle Agreement:** Settle the proposal as the Market Operator. Settlement transfers and archives the underlying collateral, issues the MBS, and transfers the MBS as an atomic action eliminating the counterparty risk from the transaction. (An atomic action is an uninterrupted sequence of operations, effectively making it a single operation.)
- 4. View Mortgage Pool: As the Mortgage Pool Holder, view the new MBS.

All of these steps can be executed through the demo prototype user interface but could be fully automated in a production implementation of the application.

Getting Started

Accessing the Demo

Follow the instructions in the Read Me provided with the demo code to install and run the demo.

Choosing and Changing Roles

When you launch the prototype, you will see the Log-In screen.



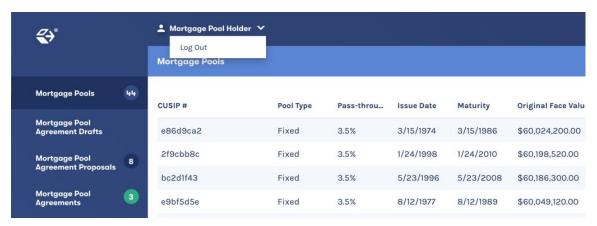
To use this screen:

- To log in as a user, choose the role from the drop-down list.
 The username appears at the top of their dashboard.
- **2.** To change to a different user:





• Choose **Log Out** below the current username on any screen.



Log in as the new user.

Proposing Mortgage Pool Agreement

The workflow begins with a Mortgage Pool Holder proposing a consolidation of existing mortgage pools into one new security. This would generally be done when the current face values of the pools has dropped from their original values because of amortization, prepayments, defaults, or refinancings that affect the value of the pool.

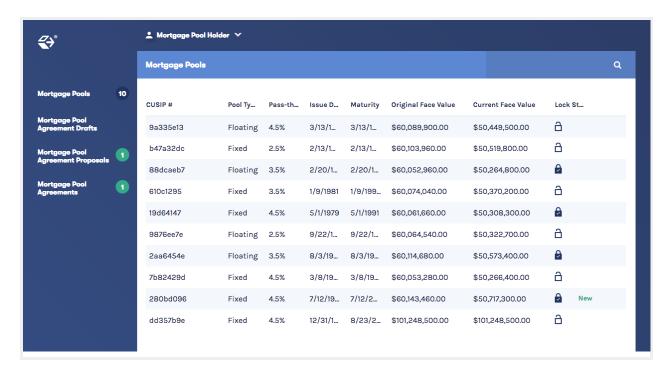
To enter a new proposal:

1. Log in as Mortgage Pool Holder.

The Mortgage Pools list screen will be displayed.







The Mortgage Pools list screen shows current mortgage pools holdings. Key things to note on the screen:

- Information on each pool includes the CUSIP, type fixed or floating, the pass-through rate, dates, and original and current value
- Current value is lower than the original on virtually every pool
- Lock status indicates

Open: available for repackaging



Locked: not available for repackaging

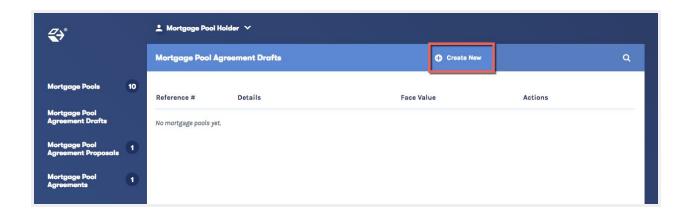


- The last column shows "New" for any updated information
- The numbers in green circles indicate new data. Once you open the page, the number reverts to the dark blue total.
- Click the heading to sort by any column.
- 2. Choose Mortgage Pool Agreement Drafts in the menu bar at the left.

The Mortgage Pool Agreement Drafts list screen displays any current proposals.



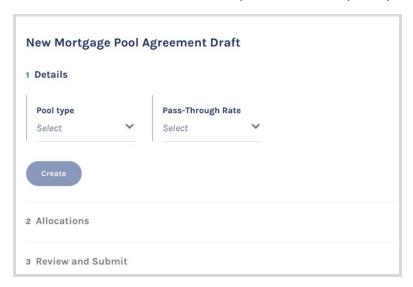








3. Choose the Create New button to open the New Proposal pane.



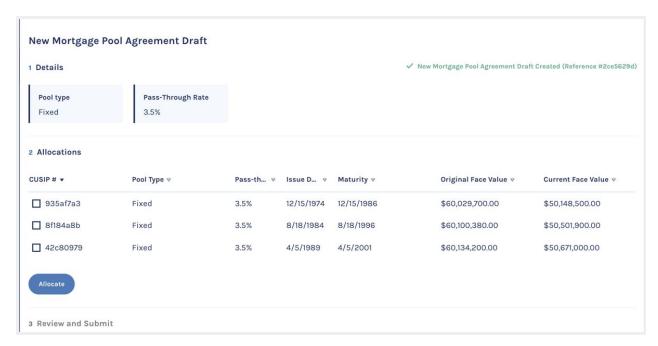
4. Enter the proposal data in the New Proposal pane:

a. Pool Type: Fixed

b. Pass-Through Rate: 3.5%

5. Choose the Create button.

When the new proposal is created, the Allocations section of the pane automatically expands. Only the mortgage pools that match the selected parameters will be displayed.

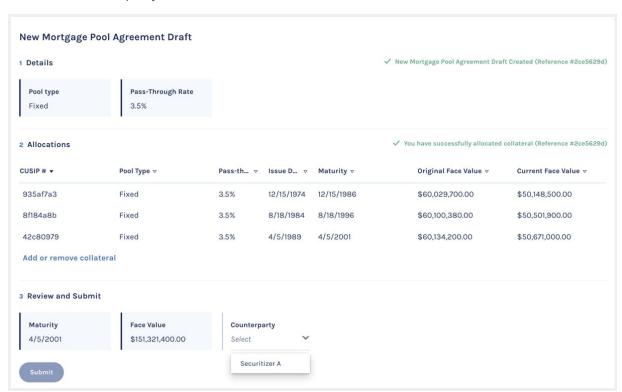




Select all the matching mortgage pools to include by selecting checkbox(es).Choose the Allocate button.

Maturity and Face Value will be updated based on the pools allocated. The Review and Submit section of the draft proposal will expand.

7. Select the Counterparty: Securitizer A



8. Choose the Submit button.

A message will indicate that the new mortgage pool agreement draft has been created.

Tip: Make a note of the agreement reference number:

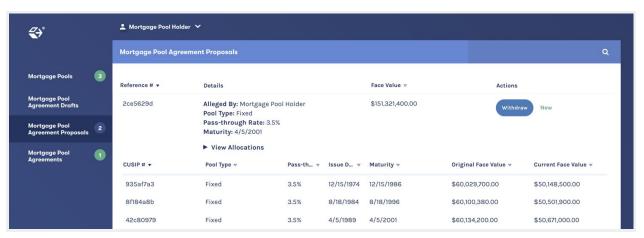
✓ New Mortgage Pool Agreement Draft Created (Reference #2ce5629d)

9. Choose the Mortgage Pool Agreement Proposals in the menu bar to see the proposal displayed on the list screen. The "New" tag and the reference number identify it. You can also use the Search function to locate the proposal by reference number.

Choose **View Allocations** to expand that section and see what is included in the proposal.







10. Choose Mortgage Pools in the menu bar to locate the mortgage pools that you selected. The icon changes to locked for each pool added to a proposed new security.





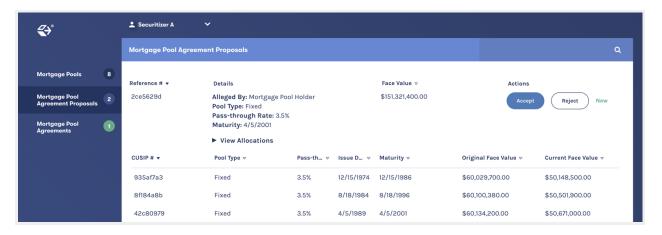


2 Accepting Proposal

The Securitizer now accepts the proposed repackaging so that the pools can be combined into one new MBS. The Securitizer can also reject a proposal, in which case the repackaging does not go forward.

To accept:

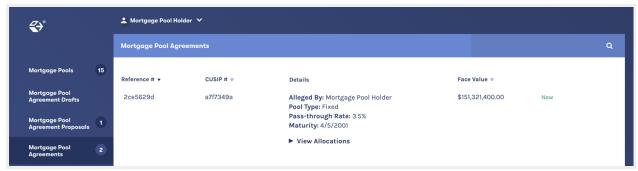
- 1. Log in as Securitizer A.
- Choose Mortgage Pool Agreement Proposals in the menu bar to view the open proposals. Select the View Allocations link to see pools being proposed for the new security.



3. Choose the **Accept** button to accept the new proposal.

The number of the Mortgage Pool Agreements in the menu bar will be updated to reflect the accepted agreement. In a production implementation, all parties would be notified of this action, including the CSD or Registry that will create a new CUSIP for the security.

4. Log in as the Mortgage Pool Holder and choose **Mortgage Pool Agreements** in the menu bar to see the new agreement on the Mortgage Pool Agreements list screen.





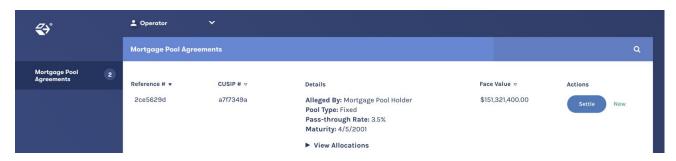


3 Settling Agreement

Once both parties agree to the terms of the new Mortgage Pool Agreement, the Market Operator can settle the trade.

To settle:

1. Log in as Operator.



2. Locate the new agreement and choose the **Settle** button.

Settlement transfers the underlying mortgage pool from the Mortgage Pool Holder to the Securitizer; issues a new security, and transfers ownership of the new security to the Mortgage Pool Holder. In a production implementation, the new security would be registered with the Federal Reserve.



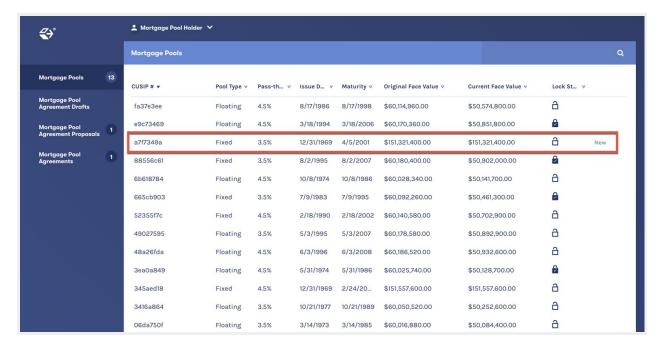


4 Viewing Mortgage Pool

To view the results of the repackaging from the point of view of the Mortgage Pool Holder:

1. Log in as the Mortgage Pool Holder. You will see the new mortgage pool on the Mortgage Pools list screen

Identify it by the "New" label. The original and current face value will be equal. The new pool has an open symbol, indicating that it could be repackaged should this be required later.



2. Search for any mortgage pool selected for repackaging. You will find they have been removed.





Additional Exploration

You can explore additional features of the MBS demo.

Some options:

- As the Mortgage Pool Holder, withdraw some proposals. Choose the Withdraw button on the Mortgage Pool Agreement Proposals list screen to cancel the proposal if it has not yet been accepted.
- As the Securitizer, reject a proposal.

Bear in mind that this demo does not handle exceptions or errors in the way that a production build would do.

