

CSAIL 2016-C7 COMMERCIAL MORTGAGE TRUST

FORM 10-K (Annual Report)

Filed 03/19/26 for the Period Ending 12/31/25

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Fiscal Year	12/31

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2025

or

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission file number of the issuing entity: 333-207361-03
Central Index Key Number of the issuing entity: 0001688149

CSAIL 2016-C7 Commercial Mortgage Trust

(exact name of the issuing entity as specified in its charter)

Central Index Key Number of the depositor: 0001654060

Credit Suisse Commercial Mortgage Securities Corp.

(exact name of the depositor as specified in its charter)

Central Index Key Number of the sponsor: 0001628601

Column Financial, Inc.

(exact name of the sponsor as specified in its charter)

Central Index Key Number of the sponsor: 0001632269

Benefit Street Partners CRE Finance LLC

(exact name of the sponsor as specified in its charter)

Central Index Key Number of the sponsor: 0001624053

Argent Real Estate Finance LLC

(exact name of the sponsor as specified in its charter)

(formerly known as Silverpeak Real Estate Finance LLC)

New York
(State or other jurisdiction of
incorporation or organization
of the issuing entity)

38-4014749
38-4014750
(I.R.S. Employer
Identification Numbers)

c/o Computershare Trust Company, National Association, as agent for
Wells Fargo Bank, National Association
as Certificate Administrator
9062 Old Annapolis Road
Columbia, MD
(Address of principal executive offices of the issuing entity)

21045
(Zip Code)

Registrant's telephone number, including area code:
(212) 272-6858

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
None		

Securities registered pursuant to Section 12(g) of the Act: None.

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (Section 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files).

Not applicable.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No

State the aggregate market value of the voting and non-voting common equity held by non-affiliates computed by reference to the price at which the common equity was last sold, or the average bid and asked price of such common equity, as of the last business day of the registrant's most recently completed second fiscal quarter.

Not applicable.

Indicate by check mark whether the registrant has filed all documents and reports required to be filed by Section 12, 13 or 15(d) of the Securities Exchange Act of 1934 subsequent to the distribution of securities under a plan confirmed by a court. Yes No

Not applicable.

Indicate the number of shares outstanding of each of the registrant's classes of common stock, as of the latest practicable date.

Not applicable.

DOCUMENTS INCORPORATED BY REFERENCE

List hereunder the following documents if incorporated by reference and the Part of the Form 10-K (e.g., Part I, Part II, etc.) into which the document is incorporated: (1) Any annual report to security holders; (2) Any proxy or information statement; and (3) Any prospectus filed pursuant to Rule 424(b) or (c) under the Securities Act of 1933. The listed documents should be clearly described for identification purposes (e.g., annual report to security holders for fiscal year ended December 24, 1980).

Not applicable.

EXPLANATORY NOTES

The Coconut Point Mortgage Loan, the Gumee Mills Mortgage Loan and the Peachtree Mall Mortgage Loan, which constituted approximately 13.0%, 9.8% and 3.2%, respectively, of the asset pool of the issuing entity as of its cut-off date, are each an asset of the issuing entity and are each part of a loan combination that includes (a) with respect to the Coconut Point Mortgage Loan, two other *pari passu* loans, which are not assets of the issuing entity, (b) with respect to the Gumee Mills Mortgage Loan, five other *pari passu* loans, which are not assets of the issuing entity and (c) with respect to the Peachtree Mall Mortgage Loan, three other *pari passu* loans, which are not assets of the issuing entity. These loan combinations, including the Coconut Point Mortgage Loan, the Gumee Mills Mortgage Loan and the Peachtree Mall Mortgage Loan, are being serviced and administered pursuant to the Pooling and Servicing Agreement, which is incorporated by reference as Exhibit 4.1 to this Annual Report on Form 10-K.

The Exhibit Index describes exhibits provided by certain parties (in their capacities indicated on the Exhibit Index) with respect to the 9 West 57th Street Mortgage Loan, which constituted approximately 6.5% of the asset pool of the issuing entity as of its cut-off date. The 9 West 57th Street Mortgage Loan is an asset of the issuing entity and is part of a loan combination that includes the 9 West 57th Street Mortgage Loan, five other *pari passu* loans and one subordinate companion loan, which are not assets of the issuing entity. A *pari passu* portion of the loan combination was securitized in the J.P. Morgan Chase Commercial Mortgage Securities Trust 2016-NINE transaction (the "JPMCC 2016-NINE Transaction"). This loan combination, including the 9 West 57th Street Mortgage Loan, is being serviced and administered pursuant to the trust and servicing agreement for the JPMCC 2016-NINE Transaction, which is incorporated by reference as Exhibit 4.2 to this Annual Report on Form 10-K.

The master servicer of a pooling and servicing agreement or trust and servicing agreement also functions as the primary servicer of the related mortgage loans serviced and administered pursuant to such agreement unless a separate primary servicer is identified herein. If this report does not identify a separate primary servicer, the servicer compliance statement provided by the master servicer under any such agreement also encompasses its responsibilities as primary servicer of the related mortgage loan or mortgage loans.

Wells Fargo Bank, National Association is the certificate administrator of the mortgage loans serviced under the Pooling and Servicing Agreement, the master servicer of the mortgage loans serviced under the Pooling and Servicing Agreement prior to March 1, 2025 and the primary servicer and special servicer of the 9 West 57th Street Mortgage Loan prior to March 1, 2025. As a result, Wells Fargo Bank, National Association is a "servicer" as defined in Item 1108(a)(2)(iii) of Regulation AB, in the capacities described above, because it is servicing mortgage loans that constituted 10% or more of the assets of the issuing entity as of its cut-off date. The assessments of compliance with applicable servicing criteria, accountants' attestation reports and servicer compliance statements delivered by Wells Fargo Bank, National Association in the capacities described above are listed in the Exhibit Index.

Trinmont LLC is the master servicer of the mortgage loans serviced under the Pooling and Servicing Agreement on and after March 1, 2025 and the primary servicer and special servicer of the 9 West 57th Street Mortgage Loan on and after March 1, 2025. As a result, Trinmont LLC is a "servicer" as defined in Item 1108(a)(2)(iii) of Regulation AB, in the capacities described above, because it is servicing mortgage loans that constituted 10% or more of the assets of the issuing entity as of its cut-off date. The assessments of compliance with applicable servicing criteria, accountants' attestation reports and servicer compliance statements delivered by Trinmont LLC in the capacities described above are listed in the Exhibit Index.

Wilmington Trust, National Association acts as trustee of the mortgage loans serviced under the Pooling and Servicing Agreement and the 9 West 57th Street Mortgage Loan. Pursuant to the Pooling and Servicing Agreement and the trust and servicing agreement for the JPMCC 2016-NINE Transaction, the trustee is required to provide an assessment of compliance with applicable servicing criteria solely with respect to Item 1122(d)(2)(iii) of Regulation AB (regarding advances of funds or guarantees regarding collections, cash flows or distributions, and any interest or other fees charged for such advances, are made, reviewed and approved as specified in the transaction agreements). However, during the reporting period, the trustee did not perform any servicing function with respect to the servicing criteria specified in Item 1122(d)(2)(iii) of Regulation AB. The master servicer or the special servicer, to the extent required, performed the servicing function identified with respect to Item 1122(d)(2)(iii) of Regulation AB, and each such party included Item 1122(d)(2)(iii) of Regulation AB in the assessment of compliance with applicable servicing criteria and accountant's attestation report for the subject transaction. As a result, this Annual Report on Form 10-K does not include an assessment of compliance with applicable servicing criteria of the trustee. One or more other servicers of the mortgage loans serviced under the Pooling and Servicing Agreement and the 9 West 57th Street Mortgage Loan have delivered one or more assessments of compliance with respect to Item 1122(d)(2)(iii) of Regulation AB.

This Annual Report on Form 10-K includes assessments of compliance with applicable servicing criteria and accountants' attestation reports from CoreLogic Solutions, LLC. This entity was engaged by each master servicer under the Pooling and Servicing Agreement and each primary servicer of the 9 West 57th Street Mortgage Loan to remit tax payments received from the escrow accounts of borrowers to local taxing authorities, to report tax amounts due, to verify tax parcel information, and to verify non-escrow tax payments. These servicing functions are included within the servicing criteria set forth in Item 1122(d)(4)(xi) of Regulation AB. Therefore, under the principles-based definition of "servicer" set forth in Item 1101(i) of Regulation AB that looks to the functions that an entity performs, this vendor is a "servicer" for the purposes of Item 1122 of Regulation AB. See Compliance and Disclosure Interpretations, Section 301.01 (Item 1101(j)).

This Annual Report on Form 10-K includes an assessment of compliance with applicable servicing criteria, accountants' attestation report and servicer compliance statement from Computershare Trust Company, National Association ("CTCNA"). CTCNA was engaged by Wells Fargo Bank, National Association

("Wells Fargo"), in its capacity as certificate administrator and custodian, to perform certain specified servicing functions identified in the assessment of compliance with applicable servicing criteria and accountants' attestation reports. Wells Fargo engaged CTCNA in connection with the sale of Wells Fargo's corporate trust services business to CTCNA and its affiliates. Further, under the principles-based definition of "servicer" set forth in Item 1101(g) of Regulation AB that looks to the functions that an entity performs, this party is a "servicer" for the purposes of Item 1123 of Regulation AB. See Compliance and Disclosure Interpretations, Section 301.01 (Item 1101(g)).

The assessment of compliance with applicable servicing criteria, accountants' attestation report and servicer compliance statement of the certificate administrator of the 9 West 57th Street Mortgage Loan is omitted from this Annual Report on Form 10-K as the certificate administrator pursuant to the related pooling and servicing agreement or trust and servicing agreement does not perform any activities that address servicing criteria with respect to the issuing entity and because it is not a "servicer" that meets the criteria in Item 1108(a)(2)(i) through (iii) of Regulation AB.

PART I

Item 1. Business.

Omitted.

Item 1A. Risk Factors.

Omitted.

Item 1B. Unresolved Staff Comments.

None.

Item 1C. Cybersecurity.

Omitted.

Item 2. Properties.

Omitted.

Item 3. Legal Proceedings.

Omitted.

Item 4. Mine Safety Disclosures.

Not applicable.

PART II

Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities.

Omitted.

Item 6.

[Reserved].

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations.

Omitted.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk.

Omitted.

Item 8. Financial Statements and Supplementary Data.

Omitted.

Item 9. Changes in and Disagreements With Accountants on Accounting and Financial Disclosure.

Omitted.

Item 9A. Controls and Procedures.

Omitted.

Item 9B. Other Information.

None.

Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections.

None.

PART III

Item 10. Directors, Executive Officers and Corporate Governance.

Omitted.

Item 11. Executive Compensation.

Omitted.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters.

Omitted.

Item 13. Certain Relationships and Related Transactions, and Director Independence.

Omitted.

Item 14. Principal Accountant Fees and Services.

Omitted.

ADDITIONAL DISCLOSURE ITEMS FOR REGULATION AB

Item 1112(b) of Regulation AB, Significant Obligor Financial Information.

The Coconut Point Mortgage Loan (Loan ID 1 on Annex A-1 of the prospectus of the registrant relating to the issuing entity filed on November 22, 2016 pursuant to Rule 424(b)(2)) constitutes a significant obligor within the meaning of Item 1101(k)(2) of Regulation AB as disclosed in the prospectus. In accordance with Item 1112(b) of Regulation AB, the most recent unaudited net operating income of the significant obligor was \$16,754,984.88 for the twelve-month period ended December 31, 2025.

Item 1114(b)(2) of Regulation AB, Significant Enhancement Provider Financial Information.

No entity or group of affiliated entities provides any external credit enhancement or other support for the certificates within this transaction as described under Item 1114(a) of Regulation AB.

Item 1115(b) of Regulation AB, Certain Derivatives Instruments (Financial Information).

No entity or group of affiliated entities provides any derivative instruments or other support for the certificates within this transaction as described under Item 1115 of Regulation AB.

Item 1117 of Regulation AB, Legal Proceedings.

The registrant knows of no material pending legal proceeding involving the trust or any party related to the trust, other than routine litigation incidental to the duties of those respective parties.

Item 1119 of Regulation AB, Affiliations and Certain Relationships and Related Transactions.

The information regarding this Item has been previously provided in the prospectus of the Registrant relating to the issuing entity filed on November 22, 2016 pursuant to Rule 424(b)(2).

Item 1122 of Regulation AB, Compliance with Applicable Servicing Criteria.

The reports on assessments of compliance with the servicing criteria for asset-backed securities and related attestation reports on such assessments of compliance with respect to the mortgage loans are attached hereto under Item 15 to this Annual Report on Form 10-K. Attached as Exhibit AA to the Pooling and Servicing Agreement incorporated by reference as Exhibit 4.1 to this Annual Report on Form 10-K is a chart identifying the entities participating in a servicing function for the transaction responsible for each applicable servicing criteria set forth in Item 1122(d).

The reports on assessments of compliance with the servicing criteria for asset-backed securities and related attestation reports on such assessments of compliance with respect to the 9 West 57th Street Mortgage Loan, which is being serviced and administered pursuant to the trust and servicing agreement for the JPMCC 2016-NINE Transaction, are attached hereto under Item 15 to this Annual Report on Form 10-K. Attached as Exhibit L to the trust and servicing agreement for the JPMCC 2016-NINE Transaction incorporated by reference as Exhibit 4.2 to this Annual Report on Form 10-K is a chart identifying the entities participating in a servicing function for the JPMCC 2016-NINE Transaction responsible for each applicable servicing criteria set forth in Item 1122(d).

Item 1123 of Regulation AB, Servicer Compliance Statement.

The servicer compliance statements are attached as Exhibits to this Annual Report on Form 10-K.

PART IV

Item 15. Exhibits and Financial Statement Schedules.

(a) The following is a list of documents filed as part of this Annual Report on Form 10-K:

- (1) Not applicable
- (2) Not applicable
- (3) See below

4.1 [Pooling and Servicing Agreement, dated as of November 1, 2016, by and among Credit Suisse Commercial Mortgage Securities Corp., as Depositor, Wells Fargo Bank, National Association, as Master Servicer, Rialto Capital Advisors, L.L.C., as Special Servicer, Wells Fargo Bank, National Association, as Certificate Administrator, Wilmington Trust, National Association, as Trustee, and Park Bridge Lender Services L.L.C., as Operating Advisor and Asset Representations Reviewer, \(filed as Exhibit 4.1 to the registrant's Current Report on Form 8-K, filed on November 22, 2016 under Commission File No. 333-207361-01 and incorporated by reference herein\).](#)

4.2 [Trust and Servicing Agreement](#), dated as of September 26, 2016, by and among J.P. Morgan Chase Commercial Mortgage Securities Corp., as Depositor, Wells Fargo Bank, National Association, as Servicer and Special Servicer, Wells Fargo Bank, National Association, as Certificate Administrator, and Wilmington Trust, National Association, as Trustee (filed as Exhibit 4.2 to the registrant's Current Report on Form 8-K filed on November 22, 2016 under Commission File No. 333-207361-03 and incorporated by reference herein).

4.3 [Agreement Between Note Holders](#), dated as of September 7, 2016, by and between Column Financial, Inc., as Initial Note A-1 Holder, and Morwyn Stanley Bank, N.A., as Initial Note A-2 Holder and Initial Note A-3 Holder (filed as Exhibit 4.4 to the registrant's Current Report on Form 8-K filed on November 22, 2016 under Commission File No. 333-207361-03 and incorporated by reference herein).

4.4 [Agreement Between Note Holders](#), dated as of November 3, 2016, by and between Column Financial, Inc., as Initial Note A-1A Holder and Initial Note A-1B Holder, Wells Fargo Bank, National Association, as Initial Note A-2A Holder and Initial Note A-2B Holder, and Regions Bank, as Initial Note A-3 Holder and Initial Note A-4 Holder (filed as Exhibit 4.5 to the registrant's Current Report on Form 8-K filed on November 22, 2016 under Commission File No. 333-207361-03 and incorporated by reference herein).

4.5 [Amended and Restated Agreement Between Note Holders](#), dated as of September 15, 2016, by and between Wilmington Trust, National Association, as trustee, for the benefit of the registered Holders of the SGI Commercial Mortgage Securities Trust 2016-C5, Commercial Mortgage Pass-Through Certificates, Series 2016-C5, as Note A-1 Holder, SPREF WH III LLC, as Initial Note A-2 Holder, SPREF WH III LLC, as Initial Note A-3 Holder, and SPREF WH III LLC, as Initial Note A-4 Holder (filed as Exhibit 4.7 to the registrant's Current Report on Form 8-K filed on November 22, 2016 under Commission File No. 333-207361-03 and incorporated by reference herein).

4.6 [Co-Lender Agreement](#), dated as of September 26, 2016, by and between JPMorgan Chase Bank, National Association, as Initial Note A Holder and JPMorgan Chase Bank, National Association, as Initial Note B Holder (filed as Exhibit 4.6 to the registrant's Current Report on Form 8-K filed on November 22, 2016 under Commission File No. 333-207361-03 and incorporated by reference herein).

31 [Rule 13a-14\(d\)/15d-14\(d\) Certifications](#).

33 Reports on assessment of compliance with servicing criteria for asset-backed securities.

33.1 [Wells Fargo Bank, National Association, as Master Servicer prior to March 1, 2025](#).

33.2 [Trimont LLC, as Master Servicer on and after March 1, 2025](#).

33.3 [Rialto Capital Advisors, LLC, as Special Servicer](#).

33.4 Wilmington Trust, National Association, as Trustee (Omitted. See Explanatory Notes.)

33.5 [Wells Fargo Bank, National Association, as Certificate Administrator](#).

33.6 [Wells Fargo Bank, National Association, as Custodian](#).

33.7 [Park Bridge Lender Services LLC, as Operating Advisor](#).

33.8 [CoreLogic Solutions, LLC, as Servicing Function Participant](#).

33.9 [Computershare Trust Company, National Association, as Servicing Function Participant for the Certificate Administrator](#).

33.10 [Computershare Trust Company, National Association, as Servicing Function Participant for the Custodian](#).

33.11 [Wells Fargo Bank, National Association, as Primary Servicer of the Coconut Point Mortgage Loan prior to March 1, 2025 \(see Exhibit 33.1\)](#).

33.12 [Trimont LLC, as Primary Servicer of the Coconut Point Mortgage Loan on and after March 1, 2025 \(see Exhibit 33.2\)](#).

33.13 [Rialto Capital Advisors, LLC, as Special Servicer of the Coconut Point Mortgage Loan \(see Exhibit 33.3\)](#).

33.14 Wilmington Trust, National Association, as Trustee of the Coconut Point Mortgage Loan (Omitted. See Explanatory Notes.)

33.15 [Wells Fargo Bank, National Association, as Custodian of the Coconut Point Mortgage Loan \(see Exhibit 33.6\)](#).

33.16 [Park Bridge Lender Services LLC, as Operating Advisor of the Coconut Point Mortgage Loan \(see Exhibit 33.7\)](#).

33.17 [CoreLogic Solutions, LLC, as Servicing Function Participant of the Coconut Point Mortgage Loan \(see Exhibit 33.8\)](#).

33.18 [Computershare Trust Company, National Association, as Servicing Function Participant for the Custodian \(see Exhibit 33.10\)](#).

33.19 [Wells Fargo Bank, National Association, as Primary Servicer of the Gurnee Mills Mortgage Loan prior to March 1, 2025 \(see Exhibit 33.1\)](#).

33.20 [Trimont LLC, as Primary Servicer of the Gurnee Mills Mortgage Loan on and after March 1, 2025 \(see Exhibit 33.2\)](#).

33.21 [Rialto Capital Advisors, LLC, as Special Servicer of the Gurnee Mills Mortgage Loan \(see Exhibit 33.3\)](#).

33.22 Wilmington Trust, National Association, as Trustee of the Gurnee Mills Mortgage Loan (Omitted. See Explanatory Notes.)

33.23 [Wells Fargo Bank, National Association, as Custodian of the Gurnee Mills Mortgage Loan \(see Exhibit 33.6\)](#).

33.24 [Park Bridge Lender Services LLC, as Operating Advisor of the Gurnee Mills Mortgage Loan \(see Exhibit 33.7\)](#).

33.25 [CoreLogic Solutions, LLC, as Servicing Function Participant of the Gurnee Mills Mortgage Loan \(see Exhibit 33.8\)](#).

33.26 [Computershare Trust Company, National Association, as Servicing Function Participant for the Custodian \(see Exhibit 33.10\)](#).

33.27 [Wells Fargo Bank, National Association, as Primary Servicer of the Peachtree Mall Mortgage Loan prior to March 1, 2025 \(see Exhibit 33.1\)](#).

33.28 [Trimont LLC, as Primary Servicer of the Peachtree Mall Mortgage Loan on and after March 1, 2025 \(see Exhibit 33.2\)](#).

33.29 [Rialto Capital Advisors, LLC, as Special Servicer of the Peachtree Mall Mortgage Loan \(see Exhibit 33.3\)](#).

33.30 Wilmington Trust, National Association, as Trustee of the Peachtree Mall Mortgage Loan (Omitted. See Explanatory Notes.)

33.31 [Wells Fargo Bank, National Association, as Custodian of the Peachtree Mall Mortgage Loan \(see Exhibit 33.6\)](#).

33.32 [Park Bridge Lender Services LLC, as Operating Advisor of the Peachtree Mall Mortgage Loan \(see Exhibit 33.7\)](#).

33.33 [CoreLogic Solutions, LLC, as Servicing Function Participant of the Peachtree Mall Mortgage Loan \(see Exhibit 33.8\)](#).

33.34 [Computershare Trust Company, National Association, as Servicing Function Participant for the Custodian \(see Exhibit 33.10\)](#).

33.35 [Wells Fargo Bank, National Association, as Primary Servicer of the 9 West 57th Street Mortgage Loan prior to March 1, 2025 \(see Exhibit 33.1\)](#).

33.36 [Trimont LLC, as Primary Servicer of the 9 West 57th Street Mortgage Loan on and after March 1, 2025 \(see Exhibit 33.2\)](#).

33.37 [Wells Fargo Bank, National Association, as Special Servicer of the 9 West 57th Street Mortgage Loan prior to March 1, 2025 \(see Exhibit 33.1\)](#).

33.38 [Trimont LLC, as Special Servicer of the 9 West 57th Street Mortgage Loan on and after March 1, 2025 \(see Exhibit 33.2\)](#).

33.39 Wilmington Trust, National Association, as Trustee of the 9 West 57th Street Mortgage Loan (Omitted. See Explanatory Notes.)

33.40 [Wells Fargo Bank, National Association, as Custodian of the 9 West 57th Street Mortgage Loan \(see Exhibit 33.6\)](#).

33.41 [CoreLogic Solutions, LLC, as Servicing Function Participant of the 9 West 57th Street Mortgage Loan \(see Exhibit 33.8\)](#).

33.42 [Computershare Trust Company, National Association, as Servicing Function Participant for the Custodian \(see Exhibit 33.10\)](#).

34 Attestation reports on assessment of compliance with servicing criteria for asset-backed securities.

34.1 [Wells Fargo Bank, National Association, as Master Servicer prior to March 1, 2025](#).

34.2 [Trimont LLC, as Master Servicer on and after March 1, 2025](#).

34.3 [Rialto Capital Advisors, LLC, as Special Servicer](#).

34.4 Wilmington Trust, National Association, as Trustee (Omitted. See Explanatory Notes.)

34.5 [Wells Fargo Bank, National Association, as Certificate Administrator](#).

34.6 [Wells Fargo Bank, National Association, as Custodian](#).

34.7 [Park Bridge Lender Services LLC, as Operating Advisor](#).

34.8 [CoreLogic Solutions, LLC, as Servicing Function Participant](#).

34.9 [Computershare Trust Company, National Association, as Servicing Function Participant for the Certificate Administrator](#).

34.10 [Computershare Trust Company, National Association, as Servicing Function Participant for the Custodian](#).

34.11 [Wells Fargo Bank, National Association, as Primary Servicer of the Coconut Point Mortgage Loan prior to March 1, 2025 \(see Exhibit 34.1\)](#).

34.12 [Trimont LLC, as Primary Servicer of the Coconut Point Mortgage Loan on and after March 1, 2025 \(see Exhibit 34.2\)](#).

34.13 [Rialto Capital Advisors, LLC, as Special Servicer of the Coconut Point Mortgage Loan \(see Exhibit 34.3\)](#).

34.14 Wilmington Trust, National Association, as Trustee of the Coconut Point Mortgage Loan (Omitted. See Explanatory Notes.)

34.15 [Wells Fargo Bank, National Association, as Custodian of the Coconut Point Mortgage Loan \(see Exhibit 34.6\)](#).

34.16 [Park Bridge Lender Services LLC, as Operating Advisor of the Coconut Point Mortgage Loan \(see Exhibit 34.7\)](#).

34.17 [CoreLogic Solutions, LLC, as Servicing Function Participant of the Coconut Point Mortgage Loan \(see Exhibit 34.8\)](#).

34.18 [Computershare Trust Company, National Association, as Servicing Function Participant for the Custodian \(see Exhibit 34.10\)](#).

34.19 [Wells Fargo Bank, National Association, as Primary Servicer of the Gurnee Mills Mortgage Loan prior to March 1, 2025 \(see Exhibit 34.1\)](#).

34.20 [Trimont LLC, as Primary Servicer of the Gurnee Mills Mortgage Loan on and after March 1, 2025 \(see Exhibit 34.2\)](#).

34.21 [Rialto Capital Advisors, LLC, as Special Servicer of the Gurnee Mills Mortgage Loan \(see Exhibit 34.3\)](#).

34.22 Wilmington Trust, National Association, as Trustee of the Gurnee Mills Mortgage Loan (Omitted. See Explanatory Notes.)

34.23 [Wells Fargo Bank, National Association, as Custodian of the Gurnee Mills Mortgage Loan \(see Exhibit 34.6\)](#).

34.24 [Park Bridge Lender Services LLC, as Operating Advisor of the Gurnee Mills Mortgage Loan \(see Exhibit 34.7\)](#).

34.25 [CoreLogic Solutions, LLC, as Servicing Function Participant of the Gurnee Mills Mortgage Loan \(see Exhibit 34.8\)](#).

34.26 [Computershare Trust Company, National Association, as Servicing Function Participant for the Custodian \(see Exhibit 34.10\)](#).

34.27 [Wells Fargo Bank, National Association, as Primary Servicer of the Peachtree Mall Mortgage Loan prior to March 1, 2025 \(see Exhibit 34.1\)](#).

34.28 [Trimont LLC, as Primary Servicer of the Peachtree Mall Mortgage Loan on and after March 1, 2025 \(see Exhibit 34.2\)](#).

34.29 [Rialto Capital Advisors, LLC, as Special Servicer of the Peachtree Mall Mortgage Loan \(see Exhibit 34.3\)](#).

34.30 Wilmington Trust, National Association, as Trustee of the Peachtree Mall Mortgage Loan (Omitted. See Explanatory Notes.)

34.31 [Wells Fargo Bank, National Association, as Custodian of the Peachtree Mall Mortgage Loan \(see Exhibit 34.6\)](#).

34.32 [Park Bridge Lender Services LLC, as Operating Advisor of the Peachtree Mall Mortgage Loan \(see Exhibit 34.7\)](#).

34.33 [CoreLogic Solutions, LLC, as Servicing Function Participant of the Peachtree Mall Mortgage Loan \(see Exhibit 34.8\)](#).

34.34 [Computershare Trust Company, National Association, as Servicing Function Participant for the Custodian \(see Exhibit 34.10\)](#).

- 34.35 [Wells Fargo Bank, National Association, as Primary Servicer of the 9 West 57th Street Mortgage Loan prior to March 1, 2025 \(see Exhibit 34.1\)](#)
- 34.36 [Trimont LLC, as Primary Servicer of the 9 West 57th Street Mortgage Loan on and after March 1, 2025 \(see Exhibit 34.2\)](#)
- 34.37 [Wells Fargo Bank, National Association, as Special Servicer of the 9 West 57th Street Mortgage Loan prior to March 1, 2025 \(see Exhibit 34.1\)](#)
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- 34.39 Wilmington Trust, National Association, as Trustee of the 9 West 57th Street Mortgage Loan (Omitted. See Explanatory Notes.)
- 34.40 [Wells Fargo Bank, National Association, as Custodian of the 9 West 57th Street Mortgage Loan \(see Exhibit 34.6\)](#)
- 34.41 [CoreLogic Solutions, LLC, as Servicing Function Participant of the 9 West 57th Street Mortgage Loan \(see Exhibit 34.8\)](#)
- 34.42 [Computershare Trust Company, National Association, as Servicing Function Participant for the Custodian \(see Exhibit 34.10\)](#)
- 35 Servicer compliance statements.
- 35.1 [Wells Fargo Bank, National Association, as Master Servicer prior to March 1, 2025](#)
- 35.2 [Trimont LLC, as Master Servicer on and after March 1, 2025](#)
- 35.3 [Rialto Capital Advisors, LLC, as Special Servicer](#)
- 35.4 [Wells Fargo Bank, National Association, as Certificate Administrator](#)
- 35.5 [Computershare Trust Company, National Association, as Servicing Function Participant for the Certificate Administrator](#)
- 35.6 [Wells Fargo Bank, National Association, as Primary Servicer of the Coconut Point Mortgage Loan prior to March 1, 2025 \(see Exhibit 35.1\)](#)
- 35.7 [Trimont LLC, as Primary Servicer of the Coconut Point Mortgage Loan on and after March 1, 2025 \(see Exhibit 35.2\)](#)
- 35.8 [Rialto Capital Advisors, LLC, as Special Servicer of the Coconut Point Mortgage Loan \(see Exhibit 35.3\)](#)
- 35.9 [Wells Fargo Bank, National Association, as Primary Servicer of the Gurnee Mills Mortgage Loan prior to March 1, 2025 \(see Exhibit 35.1\)](#)
- 35.10 [Trimont LLC, as Primary Servicer of the Gurnee Mills Mortgage Loan on and after March 1, 2025 \(see Exhibit 35.2\)](#)
- 35.11 [Rialto Capital Advisors, LLC, as Special Servicer of the Gurnee Mills Mortgage Loan \(see Exhibit 35.3\)](#)
- 35.12 [Wells Fargo Bank, National Association, as Primary Servicer of the Peachtree Mall Mortgage Loan prior to March 1, 2025 \(see Exhibit 35.1\)](#)
- 35.13 [Trimont LLC, as Primary Servicer of the Peachtree Mall Mortgage Loan on and after March 1, 2025 \(see Exhibit 35.2\)](#)
- 35.14 [Rialto Capital Advisors, LLC, as Special Servicer of the Peachtree Mall Mortgage Loan \(see Exhibit 35.3\)](#)
- 35.15 [Wells Fargo Bank, National Association, as Primary Servicer of the 9 West 57th Street Mortgage Loan prior to March 1, 2025 \(see Exhibit 35.1\)](#)
- 35.16 [Trimont LLC, as Primary Servicer of the 9 West 57th Street Mortgage Loan on and after March 1, 2025 \(see Exhibit 35.2\)](#)
- 35.17 [Wells Fargo Bank, National Association, as Special Servicer of the 9 West 57th Street Mortgage Loan prior to March 1, 2025 \(see Exhibit 35.1\)](#)
- 35.18 [Trimont LLC, as Special Servicer of the 9 West 57th Street Mortgage Loan on and after March 1, 2025 \(see Exhibit 35.2\)](#)
- 99.1 [Mortgage Loan Purchase Agreement, dated as of November 10, 2016, between Credit Suisse Commercial Mortgage Securities Corp. and Column Financial, Inc. \(filed as Exhibit 99.1 to the registrant's Current Report on Form 8-K filed on November 22, 2016 under Commission File No. 333-207361-03 and incorporated by reference herein\)](#)
- 99.2 [Mortgage Loan Purchase Agreement, dated as of November 10, 2016, between Credit Suisse Commercial Mortgage Securities Corp. and Benefit Street Partners CRE Finance LLC \(filed as Exhibit 99.2 to the registrant's Current Report on Form 8-K filed on November 22, 2016 under Commission File No. 333-207361-03 and incorporated by reference herein\)](#)
- 99.3 [Mortgage Loan Purchase Agreement, dated as of November 10, 2016, between Credit Suisse Commercial Mortgage Securities Corp. and Silverpeak Real Estate Finance LLC \(filed as Exhibit 99.3 to the registrant's Current Report on Form 8-K filed on November 22, 2016 under Commission File No. 333-207361-03 and incorporated by reference herein\)](#)
- (b) The exhibits required to be filed by the Registrant pursuant to Item 601 of Regulation S-K are listed above.
- (c) Not Applicable.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Credit Suisse Commercial Mortgage Securities Corp.
(Depositor)

/s/ Michael Parniawski
Michael Parniawski, Executive Director
(senior officer in charge of securitization of the depositor)

Date: March 19, 2026

/s/ Nader Attalla
Nader Attalla, Authorized Signatory

Date: March 19, 2026

I, Michael Parniawski, certify that:

1. I have reviewed this report on Form 10-K and all reports on Form 10-D required to be filed in respect of the period covered by this report on Form 10-K of the CSA/IL 2016-C7 Commercial Mortgage Trust (the "Exchange Act periodic reports");
2. Based on my knowledge, the Exchange Act periodic reports, taken as a whole, do not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, all of the distribution, servicing and other information required to be provided under Form 10-D for the period covered by this report is included in the Exchange Act periodic reports;
4. Based on my knowledge and the servicer compliance statements required in this report under Item 1123 of Regulation AB, and except as disclosed in the Exchange Act periodic reports, the servicers have fulfilled their obligations under the servicing agreements in all material respects; and
5. All of the reports on assessment of compliance with servicing criteria for asset-backed securities and their related attestation reports on assessment of compliance with servicing criteria for asset-backed securities required to be included in this report in accordance with Item 1122 of Regulation AB and Exchange Act Rules 13a-18 and 15d-18 have been included as an exhibit to this report, except as otherwise disclosed in this report. Any material instances of noncompliance described in such reports have been disclosed in this report on Form 10-K.

In giving the certifications above, I have reasonably relied on information provided to me by the following unaffiliated parties:

Wells Fargo Bank, National Association, as Master Servicer prior to March 1, 2025, Trimont LLC, as Master Servicer on and after March 1, 2025, Rialto Capital Advisors, LLC, as Special Servicer, Wilmington Trust, National Association, as Trustee, Wells Fargo Bank, National Association, as Certificate Administrator, Wells Fargo Bank, National Association, as Custodian, Park Bridge Lender Services LLC, as Operating Advisor, CoreLogic Solutions, LLC, as Servicing Function Participant, Computershare Trust Company, National Association, as Servicing Function Participant for the Certificate Administrator, Computershare Trust Company, National Association, as Servicing Function Participant for the Custodian, Wells Fargo Bank, National Association, as Primary Servicer for the 9 West 57th Street Mortgage Loan prior to March 1, 2025, Trimont LLC, as Primary Servicer for the 9 West 57th Street Mortgage Loan on and after March 1, 2025, Wells Fargo Bank, National Association, as Special Servicer for the 9 West 57th Street Mortgage Loan prior to March 1, 2025, Trimont LLC, as Special Servicer for the 9 West 57th Street Mortgage Loan on and after March 1, 2025, Wilmington Trust, National Association, as Trustee for the 9 West 57th Street Mortgage Loan, Wells Fargo Bank, National Association, as Custodian for the 9 West 57th Street Mortgage Loan, CoreLogic Solutions, LLC, as Servicing Function Participant for the 9 West 57th Street Mortgage Loan, and Computershare Trust Company, National Association, as Servicing Function Participant for the Custodian for the 9 West 57th Street Mortgage Loan.

Date: March 19, 2026

/s/ Michael Parniawski
Michael Parniawski
Executive Director
(senior officer in charge of securitization of the depositor)

Management's Assessment of Compliance with Applicable Servicing Criteria

Management of Wells Fargo Commercial Mortgage Servicing, a division of Wells Fargo Bank, National Association, (the "Company") is responsible for assessing compliance with the applicable servicing criteria set forth in Item 1122(d) of Regulation AB of the Securities and Exchange Commission ("SEC") relating to the servicing of asset-backed securities and other structures backed by commercial and multifamily loans as listed in Appendix A to this letter (the "Platform"), except for the servicing criteria noted as INAPPLICABLE Servicing Criteria in Appendix B, which the Company has determined are not applicable to the activities it performs with respect to the Platform, as of and for the period from January 1, 2025 through February 28, 2025 (the "Period").

With respect to applicable servicing criterion 1122(d)(4)(xi), the Company performs applicable activities covered by this servicing criterion, with respect to the Platform, except the Company has engaged a vendor to perform certain tax payment activities. Such vendor has provided a separate Regulation AB Item 1122 management assessment and attestation for such activities.

With respect to applicable servicing criteria 1122(d)(4)(i) and 1122(d)(4)(vi) the Company has engaged various vendors (the "Vendors") to perform the activities or portions of the activities required by these servicing criteria. The Company's management has determined that none of these vendors is considered a "servicer" as defined in Item 1101(j) of Regulation AB, and the Company's management has elected to take responsibility for assessing compliance with the servicing criteria applicable to each vendor as permitted by the SEC's *Compliance and Disclosure Interpretation ("C&DI") 200.06, Vendors Engaged by Servicers ("C&DI 200.06")*. The Company's management has policies and procedures in place designed to provide reasonable assurance that the vendors' activities comply in all material respects with the servicing criteria applicable to each vendor. The Company's management is solely responsible for determining that it meets the SEC requirements to apply C&DI 200.06 for the vendors and related applicable servicing criteria.

The Company's management has assessed the Company's compliance with the applicable servicing criteria as of and for the Period. In making this assessment, the Company's management used the servicing criteria set forth by the SEC in paragraph (d) of Item 1122 of Regulation AB. Based on such assessment, the Company's management believes that, as of and for the Period, the Company has complied in all material respects with the applicable servicing criteria set forth in Item 1122(d) of Regulation AB relating to the servicing of the Platform.

The Company has not identified and is not aware of any material instance of noncompliance by the Vendors with the applicable servicing criteria as of for the Period with respect to the Platform taken as a whole.

The Company has not identified any material deficiency in its policies and procedures to monitor the compliance by the Vendors with the applicable servicing criteria as of and for the Period with respect to the Platform taken as a whole.

KPMG LLP, an independent registered public accounting firm, has issued an attestation report with respect to management's assessment of compliance with the applicable servicing criteria as of and for Period.

March 12, 2026

/s/ Brian Murdock

APPENDIX A
Commercial Mortgage Pools, Multifamily Mortgage Pools and Other Structures

20 Times Square 2018-20TS	(Pearlmark) Prep Investment Advisors WH	1 WILLIAM STREET CREDIT INCOME
1155 AVE OF THE AMERICAS SERVICING	1166 AVENUE OF AMERICAS 2005-C6	1211 Avenue of the Americas 2015-1211
1345 Avenue of the Americas Park Ave FB 2005-1	1345FB2005 (COMPANION)	2001-CMLB-1
225 LIBERTY STREET TRUST 2016-225L	245 PARK AVE TRUST 2017-245P	245 PARK AVE TRUST 2017-245P C
280 PARK AVENUE 2017-280P	299 PARK SERVICING AGREEMENT	3 WORLD TRADE CENTER 2014
7 WORLD TRADE CENTER	7 WORLD TRADE CENTER 2012-WTC COMPANION	733 THIRD SERVICING AGREEMENT
ACAM 2019-FL1	ACAM 2019-FL1 COMPANION	ACM 2016-1
ACM TRAFFORD V LLC WAREHOUSE	ACORE ACP II REIT WF LLC	ACORE CAPITAL WAREHOUSE
Acore Credit IV REIT (DB Repo)	ACORE Credit IV REIT (MS) SPV LLC	ACORE Credit IV REIT (WF) SPV LLC
ACORE Credit IV REIT II SPV LLC	ACORE Credit IV TRS, LLC	Acore Credit Partners II Mortg
ACP II Co-Invest, LP	ACP II REIT GS, LLC	ACP II REIT JPM, LLC
ACP II REIT MS LLC	ACRE 2017-FL3	ACRE 2021-FL4
ACSS Real Estate Funding, LLC	AFHT 2019-FAIR	AG MIT CREL (ANGELO GORDON ENTITY) REPO
AHPT 2017-ATRM	AHPT 2018-ATRM	AHPT 2024-ATRM
AHPT 2024-ATRM COMPANION	AHT 2018-ASHF	AHT 2018-KEYS
ALEN 2021-ACEN	AMERICAN EQUITY INVESTMENT LIF	Amaly CRE LLC
AOA 2021-1177	AOC II Co-Invest, LP	AOC II MORTGAGE, LLC
ARC70 FUND IV, LP	ARCHETYPE & BARCLAYS REPO	AREF 2 WH BC LLC
AREF 2 WH WF LLC (ARGENTIC)	AREIT 2019-CRE3	AREIT 2020-CRE4 COMPANION
ARGENTIC REAL ESTATE FINANCE 2	ARTEMIS REAL ESTATE PARTNERS W	AVATAR WAREHOUSE
Aventura Mall Trust 2018-AVM	Aventura Mall Trust 2018-AVM COMPANION	BACM 2016-UBS10
BACM 2017 BNK3	BACM 2017 BNK3 COMPANION	BA-FUNB 2001-3
BAHA 2024-MAR	BALDR SHERWOOD FUND WH	BAMLL 2013-WBRK
BAMLL 2014-520M	BAMLL 2014-8SPR	BAMLL 2014-FL1 COMPANION
BAMLL 2015-200P	BAMLL 2015-ASTR	BAMLL 2015-HAUL
BAMLL 2016-ASHF	BAMLL 2016-ISQR	BAMLL 2016-SS1
BAMLL 2017-SCH	BAMLL 2017-SCH COMPANION	BAMLL 2018-DSNY
BAMLL 2020-BOC	BAMLL 2021-JACX	BAMLL 2024-8SPR

BANCORP 2016 CRE1 COMPANION	BANCORP 2017-CRE2	BANCORP 2017-CRE2 COMPANION
BANCORP 2018-CRE3	BANCORP 2018-CRE3 COMPANION	BANCORP 2018-CRE4
BANCORP 2018-CRE4 COMPANION	BANCORP BANK WAREHOUSE	BANK 2017-BNK4
BANK 2017-BNK4 COMPANION	BANK 2017-BNK5	BANK 2017-BNK5 COMPANION
BANK 2017-BNK6	BANK 2017-BNK7	BANK 2017-BNK7 COMPANION
BANK 2017-BNK8	BANK 2017-BNK8 COMPANION	BANK 2017-BNK9
BANK 2017-BNK9 COMPANION	BANK 2018-BNK10	BANK 2018-BNK10 COMPANION
BANK 2018-BNK11	BANK 2018-BNK12	BANK 2018-BNK13
BANK 2018-BNK13 COMPANION	BANK 2018-BNK14	BANK 2018-BNK14 COMPANION
BANK 2018-BNK15	BANK 2019-BNK16	BANK 2019-BNK16 COMPANION
BANK 2019-BNK17	BANK 2019-BNK17 COMPANION	BANK 2019-BNK18
BANK 2019-BNK18 COMPANION	BANK 2019-BNK19	BANK 2019-BNK20
BANK 2019-BNK20 COMPANION	BANK 2019-BNK21	BANK 2019-BNK21 COMPANION
BANK 2019-BNK22	BANK 2019-BNK23	BANK 2019-BNK24
BANK 2019-BNK24 COMPANION	BANK 2020-BNK25	BANK 2020-BNK25 COMPANION
BANK 2020-BNK26	BANK 2020-BNK27	BANK 2020-BNK28
BANK 2020-BNK28 COMPANION	BANK 2020-BNK29	BANK 2020-BNK29 COMPANION
BANK 2020-BNK30	BANK 2020-BNK30 COMPANION	BANK 2021-BNK31
BANK 2021-BNK32	BANK 2021-BNK33	BANK 2021-BNK33 COMPANION
BANK 2021-BNK34	BANK 2021-BNK34 COMPANION	BANK 2021-BNK35
BANK 2021-BNK35 COMPANION	BANK 2021-BNK36	BANK 2021-BNK37
BANK 2021-BNK38	BANK 2022-BNK39	BANK 2022-BNK40
BANK 2022-BNK40 COMPANION	BANK 2022-BNK41	BANK 2022-BNK42
BANK 2022-BNK43	BANK 2022-BNK43 COMPANION	BANK 2022-BNK44
BANK 2022-BNK44 COMPANION	BANK 2023-BNK45	BANK 2023-BNK46
BANK 2023-BNK46 COMPANION	BANK 2024-BNK47	BANK 2024-BNK47 COMPANION
BANK 2024-BNK48	BANK 2024-BNK48 COMPANION	BANK OF AMERICA WAREHOUSE
BANK5 2023-5YR1	BANK5 2023-5YR1 COMPANION	BANK5 2023-5YR2
BANK5 2023-5YR2 COMPANION	BANK5 2023-5YR3	BANK5 2023-5YR3 COMPANION
BANK5 2023-5YR4	BANK5 2024-5YR10	BANK5 2024-5YR10 COMPANION
BANK5 2024-5YR11	BANK5 2024-5YR11 COMPANION	BANK5 2024-5YR12
BANK5 2024-5YR12 COMPANION	BANK5 2024-5YR5	BANK5 2024-5YR5 COMPANION
BANK5 2024-5YR6	BANK5 2024-5YR6 COMPANION	BANK5 2024-5YR7
BANK5 2024-5YR8	BANK5 2024-5YR8 COMPANION	BANK5 2024-5YR9
BANK5 2024-5YR9 COMPANION	BANK5 2025-5YR13	BANK5 2025-5YR13 COMPANION
BARCLAYS WAREHOUSE	Basis (BIG Real Estate Finance II, LLC)	BASIS BIG REAL ESTATE WAREHOUSE
BASIS RE CAPITAL II (REPO)	Bayview Commercial Mortgage Finance LLC	BAYVIEW WAREHOUSE
BBCMS 2015-MSQ	BBCMS 2015-MSQ COMPANION	BBCMS 2016-ETC
BBCMS 2016-ETC COMPANION	BBCMS 2017 C1 Companion	BBCMS 2017-C1
BBCMS 2018-BXH	BBCMS 2018-C2	BBCMS 2018-C2 COMPANION

BBCMS 2018-CHR	BBCMS 2018-CHRS COMPANION	BBCMS 2018-EXCL
BBCMS 2018-RR1	BBCMS 2019-C4	BBCMS 2019-C4 COMPANION
BBCMS 2020-C7	BBCMS 2020-C7 COMPANION	BBCMS 2020-C8
BBCMS 2021-C11	BBCMS 2021-C11 COMPANION	BBCMS 2024-5C25
BBCMS 2024-5C27	BBCMS 2024-5C27 COMPANION	BBCMS 2024-C26
BBCMS 2024-C26 COMPANION	BBCMS 2024-C28	BBCMS 2024-C28 COMPANION
BBCRE 2015-GTP	BBSG 2016-MRP	BB-UBS 2012-SHOW
BB-UBS 2012-TFT	BDS 2018-FL2 COMPANION	BDS 2019-FL4
BDS 2019-FL4 COMPANION	BDS 2020-FL5	BDS 2020-FL5 COMPANION
BDS 2020-FL6	BDS 2021-FL10	BDS 2021-FL10 COMPANION
BDS 2021-FL7	BDS 2021-FL7 COMPANION	BDS 2021-FL8
BDS 2021-FL9	BDS 2021-FL9 COMPANION	BDS 2022-FL11
BDS 2022-FL11 COMPANION	BDS 2022-FL12	BDS 2022-FL12 COMPANION
BDS 2024-FL13	BDS 2024-FL13 COMPANION	BDS III Mortgage Capital G LLC
BDS III Mortgage Capital J LLC	BDS III MORTGAGE CAPITAL LLC	BDS IV MORTGAGE CAPITAL G LLC
BDS IV MORTGAGE CAPITAL J LLC	BDS IV Mortgage Capital LLC	BDS IV Mortgage Capital S LLC
BDS IV MORTGAGE CAPITAL W LLC	BDS V MORTGAGE CAPITAL G LLC	BDS V MORTGAGE CAPITAL LLC
BDS V MORTGAGE CAPITAL W LLC	BENCHMARK 2018-B1	BENCHMARK 2018-B1 COMPANION
BENCHMARK 2019-B9	BENCHMARK 2019-B9 COMPANION	BENEFIT STREET PARTNERS
BERKSHIRE MEZZ	BFLD 2024-UNIV	BGL Pinehurst 2023-1
BHMS 2018-ATLS	BHR 2018-PRME	BIG Real Estate Investments II
BLACKROCK WELLS FARGO WH	BLACKSTONE (BRE/MWT)	BLP 2023-IND
BMARK 2018- B5	BMARK 2018-B4	BMARK 2018-B4 COMPANION
BMARK 2018-B5 COMPANION	BMARK 2024-V12	BMARK 2024-V12 COMPANION
BMARK 2024-V8	BMO 2024-5C3	BMO 2024-5C3 COMPANION
BMO 2024-5C8	BMO 2024-5C8 COMPANION	BMO 2024-C8
BPR 2021-TY	BPR 2022-OANA	BPR 2022-STAR
BPR 2023-STON	BPR 2024-PARK	BPR 2024-PARK COMPANION
BPR 2024-PMDW	BRDIGE BDS III WELLS REPO	BRIGADE CAPITAL MGMT WAREHOUSE
BSB06001	BSC04PWR3	BSC04PWR6
BSC05PWR10	BSC05PWR7	BSC05PWR8
BSC05PWR9	BSC06PWR13	BSC07PWR15
BSC07PWR16	BSC07PWR17	BSC07PWR18
BSCM06TOP24	BSCM07TOP26	BSCM07TOP28 (COMPANION) 2_STARWOOD
BSCMS05TOP20 (COMPANION) 1_NYLIFE	BSCMS05TOP20 (COMPANION) 2_HARTFORDLIFE	BSCMS05TOP20 (COMPANION) 3_METLIFE
BSPCC II WAREHOUSE	BSPT SUB LENDER II,LLC WH	BSREP 2021-DC
BWAY 2013-1515	BWAY 2015-1740	BX 2018-IND
BX 2021-21M	BX 2021-PAC	BX 2021-VIEW
BX 2021-VINO	BX 2021-XL2	BX 2022-AHP

BX 2022-CSMO	BX 2022-GPA	BX 2024-AIR2
BX 2024-AIRC	BX 2024-MF	BX 2024-PAT
BXHPP 2021-FILM	BXP 2017-CC	BXP 2017-CC COMPANION
BXP 2017-GM	BXP 2017-GM COMPANION	BXP 2021-601L
BXP 2021-601L COMPANION	BXT 2017-CQHP	CALI 2024-SUN
CAMB 2019-LIFE	CANTOR CRE LENDING LP	CANTOR REPO WITH MET LIFE
CAPITAL LEASE WAREHOUSE-526	CAPITAL SOURCE RELT 2006-A	CARMEL PARTNERS
CD 2006-CD2	CD 2016 CD2	CD 2016-CD2 COMPANION
CD 2017-CD5	CD 2017-CD5 COMPANION	CD 2017-CD6
CD 2017-CD6 COMPANION	CF RFP SELLER WAREHOUSE	CF TRANS SELLER II WAREHOUSE
CF TRANS SELLER III WAREHOUSE	CFCRE 2016-C3	CFCRE 2016-C3 COMPANION
CFCRE 2016-C4	CFCRE 2016-C6	CFCRE 2016-C6 COMPANION
CFCRE 2017-C8	CFCRE 2017-C8 COMPANION	CG FUNDING I LLC
CG FUNDING II LLC	CGCMT 2013-GC15	CGCMT 2013-GC17
CGCMT 2014-GC19	CGCMT 2014-GC21	CGCMT 2014-GC25
CGCMT 2015-101A	CGCMT 2015-GC27	CGCMT 2015-GC31
CGCMT 2015-GC33	CGCMT 2015-GC33 Companion	CGCMT 2015-P1
CGCMT 2015-P1 Companion	CGCMT 2016-C1	CGCMT 2016-C1 COMPANION
CGCMT 2016-GC37	CGCMT 2016-P3	CGCMT 2016-P4
CGCMT 2016-P4 COMPANION	CGCMT 2017-B1	CGCMT 2017-B1 COMPANION
CGCMT 2017-P7	CGCMT 2017-P7 COMPANION	CGCMT 2017-P8
CGCMT 2017-P8 COMPANION	CGCMT 2018-C6	CGCMT 2018-C6 COMPANION
CGCMT 2019-C7	CGCMT 2019-C7 COMPANION	CGCMT 2019-GC43
CGCMT 2019-GC43 COMPANION	CGMS 2017-MDDR POOL A	CGMS 2017-MDDR POOL B
CGMS 2017-MDDR POOL C	CGRBS 2013-VNO5TH	CHINA ORIENT ENHANCED INCOME
CHT 2017-COSMO	CIBC	CITI REAL ESTATE FUNDING WH
CITIGROUP 2006 C5	CITIGROUP 2007-C6	CITIGROUP 2012-GC8
CITIGROUP 2012-GC8 COMPANION	CITIGROUP 2013-375P	CITIGROUP 2013-375P COMPANION
CITIGROUP 2013-GCJ11	CITIGROUP GLOBAL MARKETS REALTY CORP	CL Servicing LLC
CLAROS MORTGAGE TRUST WAREHOUSE	CLI INSURANCE SERVICING	CLMT 2016-CLNE
CLNC CREDIT 6 LLC	CLNC Credit 7, LLC	CLNC SL SILICON, LLC
CLNS 2017-IKMZ COMPANION	CMTG GS FINANCE (MACK RE)	COAST 2023-2HTL
COBALT 2007-C2	COLONY COLFINNOMA WAREHOUSE	Colony Northstar Credit Real Estate Inc
COLONY NSTAR (CLNC Credit 8 LLC) REPO	COMM 2009-K4	COMM 2010-C1
COMM 2012-CCRE1	COMM 2012-CCRE2	COMM 2012-CCRE3
COMM 2012-CCRE4	COMM 2012-CCRE4 COMPANION	COMM 2012-LC4
COMM 2013-CCRE10	COMM 2013-CCRE10 COMPANION	COMM 2013-CCRE12
COMM 2013-CCRE13	COMM 2013-CCRE6	COMM 2013-SFS
COMM 2013-WWP	COMM 2014-277P	COMM 2014-CCRE14
COMM 2014-CCRE14 COMPANION	COMM 2014-CCRE15	COMM 2014-CCRE20

COMM 2014-CCRE20 COMPANION	COMM 2014-FL5	COMM 2014-LC15
COMM 2014-LC15 COMPANION	COMM 2014-LC17	COMM 2014-UB6
COMM 2014-UBS3	COMM 2014-UBS3 COMPANION	COMM 2014-UBS5
COMM 2014-UBS5 COMPANION	COMM 2015-3BP	COMM 2015-CCRE22
COMM 2015-CCRE23	COMM 2015-CCRE23 COMPANION	COMM 2015-CCRE24
COMM 2015-CCRE24 COMPANION	COMM 2015-CCRE25	COMM 2015-CCRE26
COMM 2015-CCRE26 COMPANION	COMM 2015-LC23	COMM 2015-PC1
COMM 2016-787S	COMM 2016-787S COMPANION	COMM 2016-CCRE28
COMM 2016-DC2	COMM 2016-DC2 COMPANION	COMM 2017-PANW
COMM 2018-HOME	COMM 2018-HOME COMPANION	COMM 2020-CX
COMM 2020-CX COMPANION	COMM07FL14 (COMPANION) 2_SOCIETE GENERAL	COMMUNITY SOUTH BANK PORTFOLIO
CORE 2019-CORE	COUNTRYWIDE 2007-MF1	CPTS 2019-CPT
CPTS 2019-CPT COMPANION	CRE/AFS ESCROW ONLY LOANS	CREO LENDING LP
CREO Lending S1 LLC	CREST 2003-2	CS FIRST BOSTON 1998 C2
CSAIL 2015-C2	CSAIL 2015-C2 COMPANION	CSAIL 2015-C4
CSAIL 2016-C7	CSAIL 2017-C8	CSAIL 2017-C8 COMPANION
CSAIL 2018 -CX12	CSAIL 2018-C14	CSAIL 2018-C14 COMPANION
CSAIL 2018-CX12 COMPANION	CSCMT 2007-C2	CSCMT 2007-C3
CSFB94CFB1	CSMC 2014-USA	CSMC 2016-NXSR
CSMC 2016-NXSR COMPANION	CSMC 2017-CHOP	CSMC 2017-PFHP
CSMC 2017-TIME	CSMC 2018-SITE	CSMC 2018-SITE COMPANION
CSWF 2018-TOP	CSWF 2021-SOP2	DAVIS COMPANIES WAREHOUSE
DBCCRE 2014-ARCP	DBG 2017-BBG	DBGS 2018-1
DBGS 2018-C1 COMPANION	DBJPM 2016-C1	DBJPM 2016-C1 COMPANION
DBJPM 2016-SFC	DBJPM 2016-SFC COMPANION	DBUBS 2011- LC3
DBUBS 2011-LC1	DBUBS 2011-LC1 COMPANION	DBUBS 2011-LC2
DBUBS 2017-BRBRK	DBUBS 2017-BRBRK COMPANION	DBWF 2015-LCM
DBWF 2016-85T	DBWF 2016-85T COMPANION	DBWF 2018-AMXP
DBWF 2024-LCRS	DCOT 2019-MTC	DCOT 2019-MTC COMPANION
DELPHI CRE FUNDING (ACORE WAREHOUSE)	DEUTSCHE TRUST COMPANY LIMITED	DEXIA REAL ESTATE CAPITAL MARK
DK ASH MEZZ C LLC	DOLLAR GENERAL	Dolp Trust 2021-NYC
DPT 2023-STE2	DRAWBRIDGE WAREHOUSE	ELLIOTT WAREHOUSE
ELM 2024-ELM (10 Pack)	ELM 2024-ELM (15 Pack)	ENERGY PLAZA LEASE TRUST 2002
FG MANAGEMENT (FGUSRED) WAREHOUSE	FII F DEBT ACCT PTE LTD	First Tennessee Bank
FMPRE 2017-KT02	FMPRE 2018-KT03	FNMA World Savings
FORT CRE 2022-FL3	FORT CRE 2022-FL3 COMPANION	FORTRESS (CF TRANS HOLDCO LLC) WAREHOUSE
FORTRESS REPO WITH NATIXIS	FREDDIE MAC WHOLE LOAN FUND -H	FREDDIE MAC-NREF Mezz
FREDDIE MAC-WHOLE LOAN FUND 20	FREMF 2012-K19	FREMF 2012-K20
FREMF 2012-K21	FREMF 2012-K22	FREMF 2012-K23

FREMF 2013-K24	FREMF 2013-K25	FREMF 2013-K26
FREMF 2013-K28	FREMF 2013-K29	FREMF 2013-K30
FREMF 2013-K31	FREMF 2013-K32	FREMF 2013-K33
FREMF 2013-K34	FREMF 2013-K35	FREMF 2013-KS01
FREMF 2014-K36	FREMF 2014-K37	FREMF 2014-K38
FREMF 2014-K39	FREMF 2014-K40	FREMF 2014-K41
FREMF 2014-K715	FREMF 2014-K716	FREMF 2014-KX01
FREMF 2015-K1501	FREMF 2015-K42	FREMF 2015-K43
FREMF 2015-K44	FREMF 2015-K45	FREMF 2015-K46
FREMF 2015-K47	FREMF 2015-K48	FREMF 2015-K49
FREMF 2015-K50	FREMF 2015-K51	FREMF 2015-K718
FREMF 2015-K720	FREMF 2015-K721	FREMF 2015-KF09
FREMF 2015-KF10	FREMF 2015-KS03	FREMF 2016-KF18
FREMF 2016-K52	FREMF 2016-K53	FREMF 2016-K54
FREMF 2016-K55	FREMF 2016-K56	FREMF 2016-K57
FREMF 2016-K59	FREMF 2016-K60	FREMF 2016-K722
FREMF 2016-K723	FREMF 2016-KF14	FREMF 2016-KF15
FREMF 2016-KF19	FREMF 2016-KIR1	FREMF 2016-KS06
FREMF 2016-KS07	FREMF 2016-KW01	FREMF 2016-KX02
FREMF 2017-K61	FREMF 2017-K62	FREMF 2017-K64
FREMF 2017-K65	FREMF 2017-K66	FREMF 2017-K67
FREMF 2017-K68	FREMF 2017-K69	FREMF 2017-K70
FREMF 2017-K71	FREMF 2017-K725	FREMF 2017-K726
FREMF 2017-K727	FREMF 2017-K728	FREMF 2017-K729
FREMF 2017-KBF1	FREMF 2017-KF27	FREMF 2017-KF28
FREMF 2017-KF32	FREMF 2017-KF34	FREMF 2017-KF36
FREMF 2017-KF37	FREMF 2017-KF39	FREMF 2017-KF40
FREMF 2017-KF41	FREMF 2017-KGS1	FREMF 2017-KJ12
FREMF 2017-KJ14	FREMF 2017-KJ16	FREMF 2017-KJ17
FREMF 2017-KL01	FREMF 2017-KS08	FREMF 2017-KS09
FREMF 2017-KT01	FREMF 2017-KW02	FREMF 2017-KW03
FREMF 2018-K1505	FREMF 2018-K1506	FREMF 2018-K1507
FREMF 2018-K1508	FREMF 2018-K72	FREMF 2018-K73
FREMF 2018-K730	FREMF 2018-K731	FREMF 2018-K732
FREMF 2018-K75	FREMF 2018-K76	FREMF 2018-K77
FREMF 2018-K78	FREMF 2018-K79	FREMF 2018-K80
FREMF 2018-K81	FREMF 2018-K82	FREMF 2018-K83
FREMF 2018-K84	FREMF 2018-K86	FREMF 2018-KBF2
FREMF 2018-KBX1	FREMF 2018-KC02	FREMF 2018-KF42
FREMF 2018-KF43	FREMF 2018-KF44	FREMF 2018-KF45

FREMF 2018-KF46	FREMF 2018-KF47	FREMF 2018-KF48
FREMF 2018-KF49	FREMF 2018-KF50	FREMF 2018-KF52
FREMF 2018-KF53	FREMF 2018-KF55	FREMF 2018-KF56
FREMF 2018-KHG1	FREMF 2018-KJ19	FREMF 2018-KJ20
FREMF 2018-KL02	FREMF 2018-KL03	FREMF 2018-KS10
FREMF 2018-KSL1	FREMF 2018-KSW4	FREMF 2018-KW04
FREMF 2018-KW05	FREMF 2018-KW06	FREMF 2018-KW07
FREMF 2018-KX03	FREMF 2019-K100	FREMF 2019-K101
FREMF 2019-K102	FREMF 2019-K103	FREMF 2019-K1510
FREMF 2019-K1511	FREMF 2019-K1512	FREMF 2019-K1513
FREMF 2019-K1514	FREMF 2019-K734	FREMF 2019-K735
FREMF 2019-K736	FREMF 2019-K87	FREMF 2019-K88
FREMF 2019-K89	FREMF 2019-K90	FREMF 2019-K92
FREMF 2019-K93	FREMF 2019-K94	FREMF 2019-K95
FREMF 2019-K96	FREMF 2019-K97	FREMF 2019-K98
FREMF 2019-K99	FREMF 2019-KBF3	FREMF 2019-KC04
FREMF 2019-KC05	FREMF 2019-KC06	FREMF 2019-KC07
FREMF 2019-KF57	FREMF 2019-KF60	FREMF 2019-KF61
FREMF 2019-KF62	FREMF 2019-KF63	FREMF 2019-KF64
FREMF 2019-KF66	FREMF 2019-KF68	FREMF 2019-KF70
FREMF 2019-KF72	FREMF 2019-KF73	FREMF 2019-KJ25
FREMF 2019-KJ26	FREMF 2019-KJ27	FREMF 2019-KL04
FREMF 2019-KS11	FREMF 2019-KS12	FREMF 2019-KS13
FREMF 2019-KW09	FREMF 2019-KW10	FREMF 2020-K104
FREMF 2020-K108	FREMF 2020-K109	FREMF 2020-K111
FREMF 2020-K112	FREMF 2020-K113	FREMF 2020-K114
FREMF 2020-K115	FREMF 2020-K116	FREMF 2020-K117
FREMF 2020-K118	FREMF 2020-K119	FREMF 2020-K122
FREMF 2020-K1517	FREMF 2020-K737	FREMF 2020-K738
FREMF 2020-K739	FREMF 2020-K740	FREMF 2020-KF74
FREMF 2020-KF75	FREMF 2020-KF77	FREMF 2020-KF78
FREMF 2020-KF79	FREMF 2020-KF81	FREMF 2020-KF82
FREMF 2020-KF83	FREMF 2020-KF86	FREMF 2020-KF88
FREMF 2020-KF89	FREMF 2020-KF90	FREMF 2020-KF91
FREMF 2020-KF92	FREMF 2020-KF93	FREMF 2020-KF94
FREMF 2020-KF95	FREMF 2020-KG04	FREMF 2020-KHG2
FREMF 2020-KI05	FREMF 2020-KJ28	FREMF 2020-KJ29
FREMF 2020-KJ30	FREMF 2020-KJ31	FREMF 2020-KJ32
FREMF 2020-KS14	FREMF 2020-KSG1	FREMF 2020-KX04

FREMF 2021-K123	FREMF 2021-K126	FREMF 2021-K127
FREMF 2021-K128	FREMF 2021-K129	FREMF 2021-K130
FREMF 2021-K133	FREMF 2021-K134	FREMF 2021-K135
FREMF 2021-K136	FREMF 2021-K1521	FREMF 2021-K1522
FREMF 2021-K741	FREMF 2021-K742	FREMF 2021-K743
FREMF 2021-K744	FREMF 2021-K745	FREMF 2021-K746
FREMF 2021-KF100	FREMF 2021-KF101	FREMF 2021-KF102
FREMF 2021-KF103	FREMF 2021-KF104	FREMF 2021-KF105
FREMF 2021-KF106	FREMF 2021-KF107	FREMF 2021-KF108
FREMF 2021-KF109	FREMF 2021-KF110	FREMF 2021-KF111
FREMF 2021-KF113	FREMF 2021-KF116	FREMF 2021-KF117
FREMF 2021-KF119	FREMF 2021-KF121	FREMF 2021-KF122
FREMF 2021-KF124	FREMF 2021-KF126	FREMF 2021-KF96
FREMF 2021-KF97	FREMF 2021-KF99	FREMF 2021-KG06
FREMF 2021-KI07	FREMF 2021-KJ33	FREMF 2021-KJ34
FREMF 2021-KJ36	FREMF 2021-KLU3	FREMF 2021-KSG2
FREMF 2022-K139	FREMF 2022-K140	FREMF 2022-K141
FREMF 2022-K142	FREMF 2022-K143	FREMF 2022-K146
FREMF 2022-K148	FREMF 2022-K149	FREMF 2022-K150
FREMF 2022-K151	FREMF 2022-K152	FREMF 2022-K747
FREMF 2022-K748	FREMF 2022-K749	FREMF 2022-K750
FREMF 2022-KF128	FREMF 2022-KF130	FREMF 2022-KF131
FREMF 2022-KF132	FREMF 2022-KF133	FREMF 2022-KF134
FREMF 2022-KF135	FREMF 2022-KF136	FREMF 2022-KF137
FREMF 2022-KF138	FREMF 2022-KF140	FREMF 2022-KF141
FREMF 2022-KF142	FREMF 2022-KF143	FREMF 2022-KF145
FREMF 2022-KF146	FREMF 2022-KF147	FREMF 2022-KF148
FREMF 2022-KI09	FREMF 2022-KJ37	FREMF 2022-KJ38
FREMF 2022-KJ39	FREMF 2022-KJ40	FREMF 2022-KJ41
FREMF 2022-KJ42	FREMF 2022-KJ43	FREMF 2022-KSG3
FREMF 2022-KSG4	FREMF 2023-K153	FREMF 2023-K154
FREMF 2023-K155	FREMF 2023-K158	FREMF 2023-K159
FREMF 2023-K160	FREMF 2023-K507	FREMF 2023-K508
FREMF 2023-K509	FREMF 2023-K510	FREMF 2023-K511
FREMF 2023-K511 COMPANION	FREMF 2023-K751	FREMF 2023-K752
FREMF 2023-KF149	FREMF 2023-KF151	FREMF 2023-KF152
FREMF 2023-KF153	FREMF 2023-KF154	FREMF 2023-KF155
FREMF 2023-KF158	FREMF 2023-KF159	FREMF 2023-KF160
FREMF 2023-KF161	FREMF 2023-KG08	FREMF 2023-KJ44

FREMF 2023-KJ47	FREMF 2023-KJ48	FREMF 2023-KS15
FREMF 2024-K162	FREMF 2024-K163	FREMF 2024-K164
FREMF 2024-K165	FREMF 2024-K166	FREMF 2024-K167
FREMF 2024-K513	FREMF 2024-K515	FREMF 2024-K517
FREMF 2024-K518	FREMF 2024-K519	FREMF 2024-K521
FREMF 2024-K526	FREMF 2024-K527	FREMF 2024-K529
FREMF 2024-K530	FREMF 2024-K531	FREMF 2024-K757
FREMF 2024-KF162	FREMF 2024-KF163	FREMF 2024-KF164
FREMF 2024-KJ49	FREMF 2024-KJ50	FREMF 2024-KJ51
FREMF 2024-KJ52	FREMF 2024-Q026	FRETE 2017-ML01
FRETE 2017-ML03	FRETE 2018-ML04	FRETE 2019-ML06
FRETE 2021-ML08	FRETE 2021-ML09	FRETE 2021-ML12
FRETE 2022-ML14	FRETE 2023-ML17	FRETE 2023-ML20
FRETE 2024-ML27	FS CREIT FINANCE BMO-1 LLC	FS CREIT FINANCE GSI
FS CREIT FINANCE MM-1 LLC	FS CREIT FINANCE MS-1 LLC	FS CREIT FINANCE NTX-1 LLC
FS CREIT FINANCE WF-1 LLC	FS CREIT Finance WF-2 LLC	FS RIALTO 2019- FL1 CLO PARTIC
FS RIALTO 2019-FL1	FS RIALTO 2021-FL2	FS RIALTO 2021-FL2 CLO PARTIC
FS RIALTO 2021-FL3	FS RIALTO 2021-FL3 CLO PARTIC	FS RIALTO 2022-FL4
FS RIALTO 2022-FL4 PARTICIPATI	FS RIALTO 2022-FL5	FS RIALTO 2022-FL5 PARTICIPATI
FS RIALTO 2022-FL6	FS RIALTO 2022-FL6 PARTICIPATI	FS RIALTO 2022-FL7
FS RIALTO 2022-FL7 PARTICIPATI	FS Rialto 2025-FL10	FS Rialto 2025-FL10 PARTICIPATION
GACM 2020-FL2 CLO	GCCT H-1, LLC (GROSSMAN)	GE 2006 C1
GECMC 2007-C1	GEMINI ALTO CENTERVILLE WAREHOUSE	GERMAN AMERICAN CAPITAL CORPORATION WH
GOLDMAN 2007-GG10	GOLDMAN SACHS 2005-ROCK	GOLDMAN SACHS WAREHOUSE
GP COMMERCIAL WF LLC REPO	GPMT 2018-FL1	GPMT 2018-FL1 COMPANION
GPMT 2019-FL2	GPMT 2019-FL2 COMPANION	GPMT 2021-FL3
GRACE 2020-GRCE	GRACE 2020-GRCE COMPANION	Grand Avenue CRE 2019-FL1
GRASS RIVER SUB AGREEMENT	GREENWICH CCFC 05 GG5 (COMPANION)	GREENWICH CCFC 2007-GG9
GREENWICH CCFC 2007-GG9 COMPANION	GS 2017-STAY	GSMC 2013-G1 SPECIAL SERVICER
GSMS 2011-GC3	GSMS 2011-GC5	GSMS 2012-ALOHA
GSMS 2012-BWTR	GSMS 2012-GCJ7	GSMS 2012-GCJ7 COMPANION
GSMS 2012-GCJ9	GSMS 2012-TMSQ	GSMS 2013-G1
GSMS 2013-GC10	GSMS 2013-GC13	GSMS 2013-GCJ12
GSMS 2013-GCJ14	GSMS 2013-GCJ16	GSMS 2014-GC18
GSMS 2014-GC22	GSMS 2014-GC22 COMPANION	GSMS 2014-GC26
GSMS 2015-590M	GSMS 2015-590M COMPANION	GSMS 2015-GC28
GSMS 2015-GC34	GSMS 2015-GC34 COMPANION	GSMS 2016 G54
GSMS 2016-GS4 COMPANION	GSMS 2016-RENT COMPANION	GSMS 2017-375H
GSMS 2017-GS7	GSMS 2017-GS8	GSMS 2017-GS8 COMPANION
GSMS 2017-SLP	GSMS 2017-SLP REIT	GSMS 2018-3PCK

GSMS 2018-GS10	GSMS 2018-GS10 COMPANION	GSMS 2018-GS9
GSMS 2018-GS9 COMPANION	GSMS 2018-LUAU	GSMS 2018-RIVR
GSMS 2018-SRP5	GSMS 2018-TWR	GSMS 2019-GC38
GSMS 2019-GC38 COMPANION	GSMS 2020-GC47	GSMS 2020-GC47 COMPANION
GSMS 2021-ARDN	GSMS 2021-GSA3	GSMS 2021-GSA3 COMPANION
GSMS 2021-IP	GSMSC 2010-C1	Hana Alternative Private Real Estate Trust No. 71
Hancock Capital Investment Management	HANCOCK/OPTUM BANK WAREHOUSE	HANGANG WAREHOUSE
HBST 2015-HBS	HERA 2021-FL1	HILT 2024-ORL
HILTON 2016-HHV	HILTON 2016-HHV COMPANION	HILTON 2016-SFP
HMH 2017-NSS	HRCP DLI ATLS, LLC & HRCP AIV	HRCP DLI LLC HRCP AIV II DLI LLC
HUDSON YARDS 2016-10HY	HUDSON YARDS 2016-10HY COMPAN	HUDSON YARDS 2019-30HY
HUDSON YARDS 2019-30HY COMPAN	HUDSON YARDS 2019-55HY	HUDSON YARDS 2019-55HY COMPAN
HY 2025-SPRL	HY 2025-SPRL COMPANION	HYT 2024-RGCV
HYUNDAI INVESTMENTS (10HY MEZZ	ICNQ 2024-MF	ICNQ 2024-MF COMPANION
IMT 2017-APTS	INLAND (IMC LENDING LLC) WAREHOUSE	INLAND (INLAND MORTGAGE CAPITAL)
Inland Mortgage Capital LLC Warehouse	Inland Mortgage Lending REPO	Inpoint CS Loan (soundpoint Credit Suisse Repo)
INPOINT JPM WAREHOUSE	INPOINT REIT OPERATING PARTNER	INTOWN 2022-STAY
Invesco CMI Investments, LP	IRV 2025-200P	IRVINE CORE OFFICE TRUST 2013-IRV
JAWS EQUITY OWNER 229, L.L.C.	JAX 2019-LIC	JEMB MADISON AVE LLC (BASIS 1 - 292 MAD)
JLC VII WAREHOUSE	JLC WAREHOUSE IV LLC (DEUTSCHE REPO)	John Hancock GA Mortgage Trust
JP MORGAN CHASE	JPM 2012-CIBX COMPANION	JPM Hilton Orlando Trust 2018-HLTNO
JPM06CIBC15	JPM06CIBC17	JPM08C2
JPM2007LDP12	JPMBB 2013-C15	JPMBB 2013-C17
JPMBB 2013-C17 COMPANION	JPMBB 2014-C21	JPMBB 2014-C22
JPMBB 2014-C23	JPMBB 2014-C24	JPMBB 2014-C25
JPMBB 2014-C25 COMPANION	JPMBB 2015-C28	JPMBB 2015-C29
JPMBB 2015-C30	JPMBB 2015-C30 COMPANION	JPMBB 2015-C32
JPMBB 2015-C32 COMPANION	JPMBB 2015-C33	JPMBB 2016-C1
JPMC 2003 ML1	JPMC 2005-LDP2	JPMC 2006-LDP9
JPMC 2006-LDP9 COMPANION	JPMC 2012-CIBX	JPMC 2014-C20
JPMC 2014-C20 COMPANION	JPMCC 2007-LDP11	JPMCC 2012-C6
JPMCC 2013-C16	JPMCC 2014-DSTY	JPMCC 2015-JP1
JPMCC 2015-JP1 COMPANION	JPMCC 2016-JP2	JPMCC 2016-JP2 COMPANION
JPMCC 2016-JP4	JPMCC 2016-JP4 COMPANION	JPMCC 2016-NINE
JPMCC 2016-NINE COMPANION	JPMCC 2017-FL10	JPMCC 2017-FL10 COMPANION
JPMCC 2017-JP7	JPMCC 2017-MARK	JPMCC 2017-MARK COMPANION
JPMCC 2018-ASH8	JPMCC 2018-LAQ (La Quinta Hotel)	JPMCC 2018-PTC
JPMCC 2018-PTC COMPANION	JPMCC 2021-2NU	JPMDB 2016-C2
JPMDB 2016-C2 COMPANION	JPMDB 2016-C4	JPMDB 2016-C4 COMPANION

JPMDB 2017-C5	JPMDB 2018-C8	JPMDB 2018-C8 COMPANION
JW 2024-MRCO	JW MARRIOTT 2017 MEZZ	KIWOOOM 18 WAREHOUSE
KIWOOOM NONGHYUP WAREHOUSE	KSL 2023-HT	KSL 2024-HT2
KTB CRE Debt Fund No. 14-1 & KTB CRE Debt Fund No. 14-2	Ladder Capital Finance LLC	LADDER CAPITAL IX WAREHOUSE
LADDER CAPITAL LLC REPO	LADDER CAPITAL REALTY III LLC	LADDER CAPITALVIII REPO
Ladder CRE Finance REIT Inc	LADDER DEUTSCHE REPO	LADDER JPM REPO
LADDER VI REIT WAREHOUSE	LADDER VI TRS WAREHOUSE	LADDER WELLS FARGO REPO
LB 1999 C1	LB UBS 2004 C6	LB UBS 2005 C1 COMPANION
LB UBS 2006-C4 COMPANION	LB UBS 2006-C6	LB UBS 2006-C7
LB UBS 2008-C1	LB-UBS 2005 C7	LB-UBS 2005-C7 COMPANION
LB-UBS 2006 C1 COMPANION	LB-UBS 2006-C3 COMPANION	LB-UBS 2007-C2
LB-UBS 2007-C6	LB-UBS 2007-C7	LBUBS05C3
LBUBS2005C3 COMPANION	LCCM 2017-LC26	LCCM 2017-LC26 COMPANION
LCCM 2020-FL3	LCCM 2021-FL2	LCCM 2021-FL2 COMPANION
LCCM 2021-FL3	LCCM 2021-FL3 COMPANION	LCCM2013GCP
LCF UBS Bank Repo	LEHMAN-UBS 2005 C5 COMPANION	LEONARDO ASSET FUND
Leonardo Asset Fund LLC	LEONARDO PREFERRED INVESTMENTS	LIBREMAX WAREHOUSE
LIDO FUNDING LLC (STARWOOD)	LOANCORE (JEFFERIES) WAREHOUSE	LOANCORE CAPITAL REIT WAREHOUSE
LOEWS 2024-MIA	LONE STAR REPO WITH WELLS FARGO	LSTAR 2015-3
LSTAR 2016-4	LSTAR 2017-5	LSTAR I LLC REPO
LV 2024-SHOW	M360 2018-CRE1 COMPANION	M360 2019-CRE2
M360 2019-CRE2 COMPANION	MAD 2017-330M	MANHATTAN WEST 2020-1MW
MANHATTAN WEST 2020-1MW COMPANION	MARATHON ASSET MANAGEMENT, LLC	MARATHON MAM REPO
MARATHON REAL ESTATE CDO 2006-1	MCR 2024-TWA	MED 2021-MDLN
MED 2024-MOB	MERRILL LYNCH 2008-C1	MEZZ CAP 2006-C4
MEZZ CAP 2007-C5	MFF MEZZANINE	MIDAS ASSET WAREHOUSE
MIDDLE MARKET BANKING	MILLINIUM INMARK NONGHYUP	Mirae Asset Management
MKT 2020-525 COMPANION	MKT 2020-525M	ML 1997-C2
ML-CFC 2006-1	ML-CFC 2007-6	ML-CFC 2007-7
MLCFC07-5	MLCFC07-6	MLCFC07-8
MLCFC07-9	MLFT 2006-1 (COMPANION)_CAPTRUST	MLMT 2005-CKI1
MLMT06C1	MOFT 2020 - ABC	MOFT 2020 - ABC COMPANION
MORGAN STANLEY	MORGAN STANLEY 2011-C3	MORGAN STANLEY 2020-HR8
MORGAN STANLEY BAML 2012-C6	MORGAN STANLEY SHADOW	MORGAN STANLEY WAREHOUSE
MS06TOP21	MS06TOP23	MS07TOP25
MS07TOP27	MSBAM 2013-C11	MSBAM 2013-C11 COMPANION
MSBAM 2013-C12	MSBAM 2013-C12 COMPANION	MSBAM 2013-C13
MSBAM 2013-C8	MSBAM 2014-C14	MSBAM 2014-C15
MSBAM 2014-C15 COMPANION	MSBAM 2014-C16	MSBAM 2014-C17
MSBAM 2014-C18	MSBAM 2014-C19	MSBAM 2014-C19 COMPANION

MSBAM 2015-C22	MSBAM 2015-C22 COMPANION	MSBAM 2015-C23
MSBAM 2015-C23 COMPANION	MSBAM 2015-C24	MSBAM 2015-C25
MSBAM 2015-C25 COMPANION	MSBAM 2015-C26	MSBAM 2015-C27
MSBAM 2016-C28	MSBAM 2016-C28 COMPANION	MSBAM 2016-C29
MSBAM 2016-C30	MSBAM 2016-C30 COMPANION	MSBAM 2016-C31
MSBAM 2016-C31 COMPANION	MSBAM 2016-C32	MSBAM 2017-C33
MSBAM 2017-C33 COMPANION	MSBAM 2017-C34	MSBAM 2017-C34 COMPANION
MSC 2015-420	MSC 2015-420 COMPANION	MSC 2016-BNK2
MSC 2016-BNK2 Companion	MSC 2017-ASHF	MSC 2017-HR2
MSC 2018-H3	MSC 2018-H3 COMPANION	MSC 2018-MP
MSC 2018-MP COMPANION	MSC 2019-L3	MSC 2019-L3 COMPANION
MSC 2019-MEAD	MSC 2021-PLZA	MSC 2024-NSTB
MSC05HQ6 (COMPANION)_PRUDENTIAL	MSC05HQ7	MSC06HQ10
MSC07HQ12	MSC07HQ13	MSC07IQ16
MSCBB 2016-MART COMPANION	MSCCG 2018-SELF	MSCI 2005-TOP19 COMPANION
MSCI 2016-PSQ	MSCI06HQ8	MSCI06TOP21 (NONPOOLED)
MSDB 2017-712F	MSJP 2015-HAUL	MSMCH and CGML Owner
MSSG 2017-237P	MSSG 2017-237P COMPANION	MSWF 2023-1
MSWF 2023-1 COMPANION	MSWF 2023-2	MSWF 2023-2 COMPANION
MTRO 2019-TECH	MUFG UNION BANK WAREHOUSE	NATIXIS WAREHOUSE
NCMS 2018-850T COMPANION	NCMS 2018-ALXA	NCMS 2018-ALXA COMPANION
NCMS 2018-FL1	NCMS 2018-FL1 COMPANION	NCMS 2018-PREZ COMPANION
NCMS 2018-SOX	NCMS 2018-SOX COMPANION	NCMS 2018-TECH
New York Life Insurance Compan	NOHT 2019-HNLA	NORTHSTAR (NS HEALTHCARE PT 2) WAREHOUSE
NORTHSTAR CDO VI	NORTHSTAR DB LOAN NT-II REPO	NORTHSTAR WAREHOUSE
NORTHSTAR-CITI REPO WAREHOUSE	NStar (MS Loan NT-L,LLC) MS Repo	NXT CAPITAL FUNDING II, LLC
NY 2025-299P	NY 2025-299P COMPANION	NYC 2025-3BP
NYT 2019-NYT	NYT 2019-NYT COMPANION	OCM OXFORD WAREHOUSE
OMPT 2017-1MKT	One Bryant Park 2019-OBP	ONE LINCOLN 2004-C3
ONE WILLIAM STREET (OWS CF IV	ONE WILLIAM STREET (OWS CF V S	ONE WILLIAM STREET CAP MASTER FUND WH
ONE WILLIAM STREET CF A-2 SPV	ONE WILLIAM STREET CF IX SPV L	ONE WILLIAM STREET CF IX-A SPV
One William Street CF VIII LLC	ONE WILLIAM STREET CMBE MN B S	ONE WILLIAM STREET CMBE MN SPV
ONE WILLIAM STREET CRE FUND L	One William Street CRE Funding	ONNI 2024-APT
ONYP 2020-INYP	OPC KMPM LLC (OAKPASS) WH	OREI I INVESTMENTS LLC (OHANA)
OREI II INVESTMENTS LLC (OHANA)	OWS Asset Backed Loans IV, LLC	OWS BACF SPV LLC (OWS WH)
OWS BCA FUNDING WAREHOUSE	OWS CF A, LLC	OWS CF B, LLC
OWS CF B-1 SPV, LLC	OWS CF B-2 SPV, LLC	OWS CF II SPV LLC Warehouse
OWS CF SUB I WAREHOUSE	OWS CF VI SPV WAREHOUSE	OWS COMMERCIAL FUNDING 7 WAREH
OWS COMMERCIAL FUNDING II, LTD	OWS COMMERCIAL MEZZ WAREHOUSE	OWS I ACQUISITIONS, LLC WH

OXFORD PROPERTIES WAREHOUSE	OXFORD PROPERTIES WAREHOUSE 2	PCRED LENDING II OFFSHORE WH
PCRED LENDING IV WAREHOUSE	PCRED LENDING V COMPANION	PCRED LENDING V WAREHOUSE
PCT 2016-PLSD	PDILS PCILS PFLEX (PIMCO)	PERSI WF WAREHOUSE
PPF 2019-5	PPF 2019-6 CLO	PPF 9 Sub 8, LP
PPF V SUB I LLC REPO	PPF V SUB II LLC	PPFIII
PGA 2023-RSRT	PILLAR FUNDING LLC WAREHOUSE	PIMCO (TOCU 1 LLC)
PIMCO (TOCU II AND GCCU II) WH	PIMCO Bermuda Trust II Pimco Bermuda Income Fund	PIMCO FUND WAREHOUSE
PIMCO Funds: PIMCO Income Fund	PIMCO Funds: PIMCO Total Return Fund	POLC HOLDINGS I LLC MEZZ WH
POTOMAC TOWER 2022-1	PRIME PPF VI SUB I Warehouse	PRIME PPF VI SUB IX Warehouse
PRIME FINANCE CO 9 PPF 9 SUB 2	PRIME FINANCE PARTNERS II, L.P.	PRIME MORGAN STANLEY REPO
PRIME PPF (CAPITAL ONE REPO)	PRIME PPF (CITI REPO)	PRIME PPF VI SUB XI LLC
PRIME PPF VI WAREHOUSE	PROPHET WAREHOUSE	PSBAmerst Finance Construction WH
PUBLIC STORAGE	QCMT13QC	QFP II, LP (QUADRANT)
Quadrant Debt Fund, LP	Quadrant Mezz Fund, LP (approved-QMP Management LLC)	RAITH RE FUND I LP WAREHOUSE
RAMSFIELD (CVI ESJ LLC) WAREHOUSE	RBSCF 2013-GSP	RBSCF 2013-SMV
RCC REAL ESTATE WAREHOUSE	RCP SUB WF REPO	Realterm Logistics Income Fund
REGIONS BANK WAREHOUSE	REMB Insurance Servicing	REMIC ASSET HOLDINGS WAREHOUSE
RESOURCE (RCC REAL ESTATE SPE	RESOURCE CAPITAL CORP. WAREHOUSE	RESOURCE CAPITAL REPO WAREHOUSE
RESOURCE REPO (WF) WAREHOUSE	RFR 2025 - SGRM	RIAL 2022-FL8
RIAL 2022-FL8 PARTICIPATION	RIALTO BARCLAY FSCREIT REPO	Rialto Real Estate Fund III-Debt LP
RIALTO REPO WITH WF	RIALTO RREF-IV D WAREHOUSE	RIALTO WAREHOUSE 2013
RIALTO/GOLDMAN REPO	RLCF Properties, LLC	RMF SUB 4 LLC (CITREPO)
RMF SUB 5 (BARCLAYS REPO)	RMF SUB LLC WF REPO	RMF SUB2 LLC (RIALTO REPO)
ROC BRIDGE (BARCLAY REPO)	ROC DEBT STRATEGIES (BRIDGE RE)	ROC DEBT STRATEGIES II MORGAN
ROC DEBT STRATEGIES II WAREHOUSE	ROC DEBT STRATEGY FUND MANAGER LLC	ROCK 2024-CNTR
ROCK 2024-CNTR COMPANION	ROCKINCOME WAREHOUSE	ROCKWOOD (375 PARK) WAREHOUSE
ROCKWOOD CAPITAL LLC	ROCKWOOD CAPITAL REAL ESTATE	ROCKWOOD CAPITAL, LLC (NORTHROCK)
RREF III RIALTO WAREHOUSE	RREF IV-D DLI FINANCE LLC	RREF IV-D DLI Finance LLC 2
RREF V - D DLI Finance, LLC	RREF V - D DLI Finance, LLC	RREF V - D DLI GS, LLC
RREF V D DLI WF, LLC	RSF XV LLC PIMCO	SAMSUNG MEZZ LLC
SAPIR ORGANIZATION(1009 5TH AV	SAS WAREHOUSE 2013 (H2)	SCG 2023-NASH
SCG 2024-MSP	SCREDIT Mortgage Funding Sub -	SCREDIT Mortgage Funding Sub-1
SCREDIT Mortgage Funding Sub-2	SCREDIT Real Estate Capital, L	SCULPTOR CAF I
SCULPTOR WAREHOUSE	SDR 2024-DSNV	SFAVE 2015-5AVE
SG CAPITAL PARTNERS WAREHOUSE	SGCMS 2016-C5	SGCMS 2016-C5 COMPANION
SGCMS 2019-787E	SGCMS 2019-787E COMPANION	SGCMS 2020-COVE
SHELTER GROWTH FUND I MRA WH	SHELTER GROWTH HEDGE FUND WH	SHELTER GROWTH OPPORTUNITIES
SHELTER OPPORTUNITIES WAREHOUSE	SILVERPEAK RE FINANCE LLC WAREHOUSE	SILVERSTEIN WAREHOUSE
SINGERMAN (RIDGMAR MEZZ LOAN)	SL GREEN - JPM REPO	SL GREEN REALTY CORP/GRAMERCY
SL GREEN WAREHOUSE	SLG 2021-OVA	SLG Opportunistic Debt Fund LP

SMC 2017-TIME COMPANION	SOCIETE GENERALE WAREHOUSE	SOUND MARK HORIZONS FUND LP WAREHOUSE
SOUND POINT CRE FINANCE - AFLACCREUS	SOUND POINT CRE FINANCE - AFLACINC	SOUND POINT CRE FINANCE - AFLACNXTJP
SOUND POINT CRE FINANCE - AFLACNXTUS	SOUND POINT CRE FINANCE - SPTAFLAC	SOUND POINT CRE FINANCE -AFLACCREUS
SOVEREIGN BANK NA	SP OFFICE FUNDING LP (STARWOOD)	SPGN 2022-TFLM
SPREF WH II WF REPO	SPREF WH III (SILVERPEAK) COLUMN REPO	SPREF WH IV LLC (ARGENTIC)
SRE FW MEZZ WAREHOUSE (RIDGMAR MEZZ)	SREDS SK Mortgage Funding Sub-	SREDS SK MORTGAGE FUNDING SUB-
SREDS SK Real Estate Capital,	SREIT 2021-FLWR	SREIT 2021-IND
SREIT 2021-MFP	SREIT 2021-PALM	SRPT 2014-STAR
STARWOOD (JP MORGAN REPO)	STARWOOD CAP REPO	STARWOOD CITI REPO SUB 6
STARWOOD METLIFE REPO	STARWOOD MORT FUNDING-MORGAN STANLEY REP	STARWOOD MORT SUB 18 AND SUB 1
STARWOOD MORTGAGE CAPITAL WAREHOUSE	STARWOOD MORTGAGE FUNDING V LL	STARWOOD MORTGAGE VII (BMO)
STARWOOD PROPERTY MORTGAGE LLC WAREHOUSE	Starwood Property Mortgage Sub	Starwood Property Mortgage Sub-19, LLC and Starwood Property Mortgage Sub-19-A LLC
STARWOOD PROPERTY MORTGAGE SUB-2, L.L.C.	Starwood Property Mortgage Sub-21, LLC and Starwood Property Mortgage Sub-21-A LLC	STARWOOD SUB 14 REPO
STARWOOD SUB 22 -22A (BARCLAY	STARWOOD SUB 23 -23A (GOLDMAN)	STARWOOD SUB 24 -24A (BMO Harr
STARWOOD16 REPO	STRATEGIC ASSET SERVICES LLC W	STRATEGIC LAND JOINT VENTURE 2
STWD 2019-FL1	STWD 2019-FL1 COMPANION	STWD 2021-FL2
STWD 2021-FL2 COMPANION	STWD 2021-HTS	STWD 2021-LIH
STWD 2022-FL3	STWD 2022-FL3 COMPANION	SUMITOMO WAREHOUSE
TACONIC/AXONIC 4000 WAREHOUSE	TCO 2022-DPM	TCO 2024-DPM
TD BANK	TEACHERS INSURANCE & ANNUITY ASSOCIATION	TIMES SQUARE HOTEL TRUST
TMSQ 2014-1500	TOCU II LLC (PIMCO ENTITY)	TOCU II, LLC (PIMCO SLAM)
TOLIS CINCI WAREHOUSE	TRE SPCM SERIES II PORTFOLIO	TRIANGLE (NORTHSIDE-ROSSER DEB
TRIANGLE (NORTHSIDE-ROSSER DEBT HOLDING)	TRIANGLE WAREHOUSE	TRT LENDING SUBSIDIARY II LLC WAREHOUSE
TSQ 2018-20TS COMPANION	TUEBOR TRS IV LLC	TUEBOR WAREHOUSE (LADDER)
TX Trust 2024-HOU	UBS 2012-C1	UBS 2017-C1
UBS 2017-C1 COMPANION	UBS 2017-C4	UBS 2017-C4 COMPANION
UBS 2017-C6	UBS 2017-C6 COMPANION	UBS 2017-C7
UBS 2017-C7 COMPANION	UBS 2018-C10	UBS 2018-C10 COMPANION
UBS 2019-C17	UBS 2019-C17 COMPANION	UBS 2019-C18
UBS 2019-C18 COMPANION	UBS-BARCLAYS 2012-C2	UBS-BARCLAYS 2012-C4
UBS-CITIGROUP 2011-C1	UBSCM 2018-NYCH	UCB07-1
US 2018-USDC	US BANK NA	VERTICAL CRE CDO
Vestas Qualified Investors Private RE Fund Invest Trust No. 35	VLS 2020-LAB	VNO 2012-6AVE
WACHOVIA 2004 C11	WACHOVIA 2004 C15	WACHOVIA 2004-C12
WACHOVIA 2005 C17	WACHOVIA 2005-C20	WACHOVIA 2005-C21
WACHOVIA 2006-C23	WACHOVIA 2006-C24	WACHOVIA 2006-C27
WACHOVIA 2006-C28	WACHOVIA 2006-C29	WACHOVIA 2006-C29 COMPANION
WACHOVIA 2007-C30	WACHOVIA 2007-C30 COMPANION	WACHOVIA 2007-C31
WACHOVIA 2007-C32	WACHOVIA 2007-C33	WACHOVIA 2007-C33 COMPANION

WACHOVIA 2007-C34	WACHOVIA 2007-WHALE 8 NON TRUST	WACHOVIA RED - TAX CREDIT
WACHOVIA STRUCTURED FINANCE	WB 2024-HQ	WBHT 2019-WBM
WEST TOWN MALL TRUST 2017-KNOX	WEST TOWN MALL TRUST 2017-KNOX COMPANION	WF LCC V LLC WAREHOUSE
WFB - BRIDGE LOANS	WFB - EVERBANK TRANSFER	WFB - PORTFOLIO
WFCF UCC/INSURANCE SERVICING	WFCF-Cap Fin Corp Canada	WFCF-Cap Fin LLC
WFCF-TradeCap Serv Inc	WFCF-UK London Branch	WFCM 2012-LC5
WFCM 2013-BTC	WFCM 2013-LC12	WFCM 2014-LC16
WFCM 2014-LC18	WFCM 2015-C26	WFCM 2015-C27
WFCM 2015-C28	WFCM 2015-C28 COMPANION	WFCM 2015-C29
WFCM 2015-C30	WFCM 2015-C31	WFCM 2015-C31 Companion
WFCM 2015-LC20	WFCM 2015-LC20 COMPANION	WFCM 2015-LC22
WFCM 2015-NXS1	WFCM 2015-NXS1 COMPANION	WFCM 2015-NXS2
WFCM 2015-NXS2 COMPANION	WFCM 2015-NXS3	WFCM 2015-NXS3 COMPANION
WFCM 2015-NXS4	WFCM 2015-P2	WFCM 2015-SG1
WFCM 2016-BNK1	WFCM 2016-BNK1 COMPANION	WFCM 2016-C32
WFCM 2016-C33	WFCM 2016-C34	WFCM 2016-C34 COMPANION
WFCM 2016-C35	WFCM 2016-C35 COMPANION	WFCM 2016-C36
WFCM 2016-C36 COMPANION	WFCM 2016-C37	WFCM 2016-C37 COMPANION
WFCM 2016-LC24	WFCM 2016-LC25	WFCM 2016-LC25 COMPANION
WFCM 2016-NXS5	WFCM 2016-NXS6	WFCM 2016-NXS6 COMPANION
WFCM 2017-C38	WFCM 2017-C38W	WFCM 2017-C39
WFCM 2017-C39 COMPANION	WFCM 2017-C40	WFCM 2017-C41
WFCM 2017-C42	WFCM 2017-C42 COMPANION	WFCM 2017-HSDB
WFCM 2017-RB1	WFCM 2017-RB1 COMPANION	WFCM 2017-RC1
WFCM 2017-SMP	WFCM 2018-1745	WFCM 2018-AUS
WFCM 2018-C43	WFCM 2018-C43 COMPANION	WFCM 2018-C44
WFCM 2018-C44 COMPANION	WFCM 2018-C45	WFCM 2018-C46
WFCM 2018-C46 COMPANION	WFCM 2018-C47	WFCM 2018-C47 COMPANION
WFCM 2018-C48	WFCM 2018-C48 COMPANION	WFCM 2019-C49
WFCM 2019-C50	WFCM 2019-C50 COMPANION	WFCM 2019-C51
WFCM 2019-C52	WFCM 2019-C52 COMPANION	WFCM 2019-C53
WFCM 2019-C53 COMPANION	WFCM 2019-C54	WFCM 2019-C54 COMPANION
WFCM 2019-JWDR	WFCM 2020-C55	WFCM 2020-C56
WFCM 2020-C57	WFCM 2020-C57 COMPANION	WFCM 2020-C58
WFCM 2021-C59	WFCM 2021-C59 COMPANION	WFCM 2021-C60
WFCM 2021-C61	WFCM 2021-C61 COMPANION	WFCM 2021-FCMT
WFCM 2021-SAVE	WFCM 2022-C62	WFCM 2022-C62 COMPANION
WFCM 2022-JS2	WFCM 2022-ONL	WFCM 2024-ICH1
WFCM 2024-5C1	WFCM 2024-5C1 COMPANION	WFCM 2024-5C2
WFCM 2024-5C2 COMPANION	WFCM 2024-BPRC	WFCM 2024-BPRC COMPANION

1122(d)(2)(iii)	regarding collections, cash flows or distributions, and any interest or other fees charged for such advances, are made, reviewed and approved as specified in the transaction agreements.	X			
1122(d)(2)(iv)	The related accounts for the transaction, such as cash reserve accounts or accounts established as a form of overcollateralization, are separately maintained (e.g., with respect to commingling of cash) as set forth in the transaction agreements.	X			
1122(d)(2)(v)	Each custodial account is maintained at a federally insured depository institution as set forth in the transaction agreements. For purposes of this criterion, "federally insured depository institution" with respect to a foreign financial institution means a foreign financial institution that meets the requirements of Rule 13c-1(b)(1) of the Securities Exchange Act.	X			
1122(d)(2)(vi)	Unissued checks are safeguarded so as to prevent unauthorized access.	X			
1122(d)(2)(vii)	Reconciliations are prepared on a monthly basis for all asset-backed securities related bank accounts, including custodial accounts and related bank clearing accounts. These reconciliations are (A) mathematically accurate; (B) prepared within 30 calendar days after the bank statement cutoff date, or such other number of days specified in the transaction agreements; (C) reviewed and approved by someone other than the person who prepared the reconciliations; and (D) contain explanations for reconciling items. These reconciling items are resolved within 90 calendar days of their original identification, or such other number of days specified in the transaction agreements.	X			
Investor Remittances and Reporting					
1122(d)(3)(i)(A)	Reports to investors, including those to be filed with the Commission, are maintained in accordance with the transaction agreements and applicable Commission requirements. Specifically, such reports (A) are prepared in accordance with timeframes and other terms set forth in the transaction agreements;	X			
1122(d)(3)(i)(B)	(B) provide information calculated in accordance with the terms specified in the transaction agreements;				X
1122(d)(3)(i)(C)	(C) are filed with the Commission as required by its rules and regulations;				X
1122(d)(3)(i)(D)	(D) agree with investors' or the trustee's records as to the total unpaid principal balance and number of pool assets serviced by the Servicer.				X
1122(d)(3)(ii)	Amounts due to investors are allocated and remitted in accordance with timeframes, distribution priority and other terms set forth in the transaction agreements.				X
1122(d)(3)(iii)	Disbursements made to an investor are posted within two business days to the Servicer's investor records, or such other number of days specified in the transaction agreement.				X
1122(d)(3)(iv)	Amounts remitted to investors per the investor reports agree with cancelled checks, or other form of payment, or custodial bank statements.				X
Pool Asset Administration					
1122(d)(4)(i)	Collateral or security on pool assets is maintained as required by the transaction agreement or related mortgage loan documents.	X	X		
1122(d)(4)(ii)	Pool assets and related documents are safeguarded as required by the transaction agreement.				X
1122(d)(4)(iii)	Any additions, removals or substitutions to the asset pool are made, reviewed and approved in accordance with any conditions or requirements in the transaction agreements.	X ¹			
1122(d)(4)(iv)	Payments on pool assets, including any payoffs, made in accordance with the related [pool asset] documents are posted to the Servicer's obligor records maintained no more than two business days after receipt, or such other number of days specified in the transaction agreements, and allocated to principal, interest or other items (e.g., escrow) in accordance with the related mortgage loan documents.	X			
1122(d)(4)(v)	The Servicer's records regarding the pool assets agree with the Servicer's records with respect to an obligor's unpaid principal balance.	X			
1122(d)(4)(vi)	Changes with respect to the terms or status of an obligor's pool assets (e.g., loan modifications or re-origins) are made, reviewed and approved by authorized personnel in accordance with the transaction agreements and related pool asset documents.	X	X		
1122(d)(4)(vii)	Loss mitigation or recovery actions (e.g., forbearance plans, modifications and deeds in lieu of foreclosure, foreclosures and repossessions, as applicable) are initiated, conducted and concluded in accordance with the timeframes or other requirements established by the transaction agreements.	X			
1122(d)(4)(viii)	Records documenting collection efforts are maintained during the period a mortgage loan is delinquent in accordance with the transaction agreements. Such records are maintained on at least a monthly basis, or such other period specified in the transaction agreements, and describe the entity's activities in monitoring delinquent pool assets including, for example, phone calls, letters and payment rescheduling plans in cases where delinquency is deemed temporary (e.g., illness or unemployment).	X			
1122(d)(4)(ix)	Adjustments to interest rates or rates of return for pool assets with variable rates are computed based on the related mortgage loan documents.	X			
1122(d)(4)(x)(A)	Regarding any funds held in trust for an obligor (such as escrow accounts): (A) such funds are analyzed, in accordance with the obligor's pool asset documents, on at least an annual basis, or such other period specified in the transaction agreements	X			
1122(d)(4)(x)(B)	(B) interest on such funds is paid, or credited, to obligors in accordance with applicable pool asset documents and practices;	X			
1122(d)(4)(x)(C)	(C) such funds are returned to the obligor within 30 calendar days of full repayment of the related pool assets, or such other number of days specified in the transaction agreements.	X			
	Payments made on behalf of an obligor (such as tax or insurance payments) are made on or before the related penalty or expiration				

1122(d)(4)(xi)	dates, as indicated on the appropriate bills or notices for such payments, provided that such support has been received by the Servicer at least 30 calendar days prior to these dates, or such other number of days specified in the transaction agreements.	X		X ²	
1122(d)(4)(xii)	Any late payment penalties in connection with any payment to be made on behalf of an obligor are paid from the Servicer's funds and not charged to the obligor, unless the late payment was due to the obligor's error or omission.	X			
1122(d)(4)(xiii)	Disbursements made on behalf of an obligor are posted within two business days to the obligor's records maintained by the Servicer, or such other number of days specified in the transaction agreements.	X			
1122(d)(4)(xiv)	Delinquencies, charge-offs and uncollectible accounts are recognized and recorded in accordance with the transaction agreements.	X			
1122(d)(4)(xv)	Any external enhancement or other support, identified in Item 1114(a)(1) through (3) or Item 1115 of Regulation AB, is maintained as set forth in the transaction agreements.				X

¹ There were no activities performed during the Period with respect to the Platform, because there were no occurrences of events that would require the Company to perform such activities.

² The Company has determined that servicing criterion 1122(d)(4)(xi) is applicable to the activities the Company performs with respect to the Platform, except for certain tax payment activities that the Company has engaged a third party to perform. The third party, CoreLogic Solutions, LLC, provided a separate Reg AB 1122(d) assertion and attestation report for their tax payment activities during the Period as they relate to servicing criterion 1122(d)(4)(xi).

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Management's Assessment of Compliance with Applicable Servicing Criteria

Management of Trimont LLC, (the "Company") is responsible for assessing compliance with the applicable servicing criteria set forth in Item 1122(d) of Regulation AB of the Securities and Exchange Commission ("SEC") relating to the servicing of asset-backed securities and other structures backed by commercial and multifamily loans as listed in Appendix A to this letter (the "Platform"), except for the servicing criteria noted as INAPPLICABLE Servicing Criteria in Appendix B, which the Company has determined are not applicable to the activities it performs with respect to the Platform, as of and for the period from March 1, 2025 through December 31, 2025 (the "Period").

With respect to applicable servicing criterion 1122(d)(4)(xi), the Company performs applicable activities covered by this servicing criterion, with respect to the Platform, except the Company has engaged a vendor to perform certain tax payment activities. Such vendor has provided a separate Regulation AB Item 1122 management assessment and attestation for such activities.

With respect to applicable servicing criteria 1122(d)(4)(i) and 1122(d)(4)(vi) the Company has engaged various vendors (the "Vendors") to perform the activities or portions of the activities required by these servicing criteria. The Company's management has determined that none of these vendors is considered a "servicer" as defined in Item 1101(j) of Regulation AB, and the Company's management has elected to take responsibility for assessing compliance with the servicing criteria applicable to each vendor as permitted by the SEC's *Compliance and Disclosure Interpretation ("C&DI") 200.06, Vendors Engaged by Servicers ("C&DI 200.06")*. The Company's management has policies and procedures in place designed to provide reasonable assurance that the vendors' activities comply in all material respects with the servicing criteria applicable to each vendor. The Company's management is solely responsible for determining that it meets the SEC requirements to apply C&DI 200.06 for the vendors and related applicable servicing criteria.

The Company's management has assessed the Company's compliance with the applicable servicing criteria as of and for the Period. In making this assessment, the Company's management used the servicing criteria set forth by the SEC in paragraph (d) of Item 1122 of Regulation AB. Based on such assessment, the Company's management believes that, as of and for the Period, the Company has complied in all material respects with the applicable servicing criteria set forth in Item 1122(d) of Regulation AB relating to the servicing of the Platform.

The Company has not identified and is not aware of any material instance of noncompliance by the Vendors with the applicable servicing criteria as of for the Period with respect to the Platform taken as a whole.

The Company has not identified any material deficiency in its policies and procedures to monitor the compliance by the Vendors with the applicable servicing criteria as of and for the Period with respect to the Platform taken as a whole.

KPMG LLP, an independent registered public accounting firm, has issued an attestation report with respect to management's assessment of compliance with the applicable servicing criteria as of and for Period.

12 March 2026

/s/ Sean Reilly
Sean Reilly
Executive Managing Director
Trimont, LLC

APPENDIX A Commercial Mortgage Pools, Multifamily Mortgage Pools and Other Structures

20 Times Square 2018-20TS	(Pearlmark) Prep Investment Advisors WH	1 WILLIAM STREET CREDIT INCOME
1155 AVE OF THE AMERICAS SERVICING	1166 AVENUE OF AMERICAS 2005-C6	1211 Avenue of the Americas 2015-1211
1345 Avenue of the Americas Park Ave FB 2005-1	1345FB2005 (COMPANION)	2001-CMLB-1
225 LIBERTY STREET TRUST 2016-225L	245 PARK AVE TRUST 2017-245P	245 PARK AVE TRUST 2017-245P C
280 PARK AVENUE 2017-280P	299 PARK SERVICING AGREEMENT	3 WORLD TRADE CENTER 2014
7 WORLD TRADE CENTER	733 THIRD SERVICING AGREEMENT	ACAM 2019- FL1
ACAM 2019-FL1 COMPANION	ACM 2016-1	ACM TRAFFORD V LLC WAREHOUSE
ACORE ACP II REIT WF LLC	ACORE CAPITAL WAREHOUSE	Acore Credit IV REIT (DB Repo)
ACORE Credit IV REIT (MS) SPV LLC	ACORE Credit IV REIT (WF) SPV LLC	ACORE Credit IV REIT II SPV LLC
ACORE Credit IV TRS, LLC	Acore Credit Partners II Mortg	ACP II Co-Invest, LP
ACP II REIT AX, LLC	ACP II REIT AX-2, LLC	ACP II REIT CONA, LLC
ACP II REIT GS, LLC	ACP II REIT JPM Patent MR, LLC	ACP II REIT JPM, LLC
ACP II REIT MS LLC	ACP III Mortgage, LLC	ACP III REIT JPM, LLC
ACRE 2017-FL3	ACRE 2021-FL4	ACSS Real Estate Funding, LLC
AHPT 2019-FAIR	AHPT 2017-ATRM	AHPT 2018-ATRM
AHPT 2024-ATRM	AHPT 2024-ATRM COMPANION	AHPT 2025-ATRM
AHT 2018-ASHF	AHT 2018-KEYS	AI NPL Investor LLC(Ascendant)
ALA 2025-OANA	ALEN 2021-ACEN	AMERICAN EQUITY INVESTMENT LIF
Amaly CRE LLC	AOA 2021-1177	AOA 2025-1301
AOC II Co-Invest, LP	AOC II MORTGAGE, LLC	AOC II REIT GS, LLC
ARC70 FUND IV, LP	ARCHETYPE & BARCLAYS REPO	AREF 2 WH BC LLC
AREF 2 WH WF LLC (ARGENTIC)	AREIT 2019-CRE3	AREIT 2020-CRE4 CLO
ARGENTIC REAL ESTATE FINANCE 2	ARTEMIS REAL ESTATE PARTNERS W	AVATAR WAREHOUSE
Aventura Mall Trust 2018-AVM	Aventura Mall Trust 2018-AVM COMPANION	BACM 2016-UBS10
BACM 2017 BNK3	BACM 2017 BNK3 COMPANION	BAHA 2024-MAR
BALDR SHERWOOD FUND WH	BAMLL 2013-WBRK	BAMLL 2014-520M
BAMLL 2014-8SPR	BAMLL 2014-FL1 COMPANION	BAMLL 2015-200P
BAMLL 2015-ASTR	BAMLL 2015-HAUL	BAMLL 2016-ISQR
BAMLL 2016-SS1	BAMLL 2017-SCH	BAMLL 2017-SCH COMPANION

BAMLL 2018-DSNY	BAMLL 2020-BOC	BAMLL 2021-JACX
BAMLL 2024-8SPR	BAMLL 2025-1105W	BANCORP 2016 CRE1 COMPANION
BANCORP 2017-CRE2	BANCORP 2017-CRE2 COMPANION	BANCORP 2018-CRE3
BANCORP 2018-CRE3 COMPANION	BANCORP 2018-CRE4	BANCORP 2018-CRE4 COMPANION
BANCORP BANK WAREHOUSE	BANK 2017-BNK4	BANK 2017-BNK4 COMPANION
BANK 2017-BNK5	BANK 2017-BNK5 COMPANION	BANK 2017-BNK6
BANK 2017-BNK7	BANK 2017-BNK7 COMPANION	BANK 2017-BNK8
BANK 2017-BNK8 COMPANION	BANK 2017-BNK9	BANK 2017-BNK9 COMPANION
BANK 2018-BNK10	BANK 2018-BNK10 COMPANION	BANK 2018-BNK11
BANK 2018-BNK12	BANK 2018-BNK13	BANK 2018-BNK13 COMPANION
BANK 2018-BNK14	BANK 2018-BNK14 COMPANION	BANK 2018-BNK15
BANK 2019-BNK16	BANK 2019-BNK16 COMPANION	BANK 2019-BNK17
BANK 2019-BNK17 COMPANION	BANK 2019-BNK18	BANK 2019-BNK18 COMPANION
BANK 2019-BNK19	BANK 2019-BNK20	BANK 2019-BNK20 COMPANION
BANK 2019-BNK21	BANK 2019-BNK21 COMPANION	BANK 2019-BNK22
BANK 2019-BNK23	BANK 2019-BNK24	BANK 2019-BNK24 COMPANION
BANK 2020-BNK25	BANK 2020-BNK25 COMPANION	BANK 2020-BNK26
BANK 2020-BNK27	BANK 2020-BNK28	BANK 2020-BNK28 COMPANION
BANK 2020-BNK29	BANK 2020-BNK29 COMPANION	BANK 2020-BNK30
BANK 2020-BNK30 COMPANION	BANK 2021-BNK31	BANK 2021-BNK32
BANK 2021-BNK33	BANK 2021-BNK33 COMPANION	BANK 2021-BNK34
BANK 2021-BNK34 COMPANION	BANK 2021-BNK35	BANK 2021-BNK35 COMPANION
BANK 2021-BNK36	BANK 2021-BNK37	BANK 2021-BNK38
BANK 2022-BNK39	BANK 2022-BNK40	BANK 2022-BNK40 COMPANION
BANK 2022-BNK41	BANK 2022-BNK42	BANK 2022-BNK43
BANK 2022-BNK43 COMPANION	BANK 2022-BNK44	BANK 2022-BNK44 COMPANION
BANK 2023-BNK45	BANK 2023-BNK46	BANK 2023-BNK46 COMPANION
BANK 2024-BNK47	BANK 2024-BNK47 COMPANION	BANK 2024-BNK48
BANK 2024-BNK48 COMPANION	BANK 2025-BNK49	BANK 2025-BNK50
BANK 2025-BNK50 COMPANION	BANK 2025-BNK51	BANK 2025-BNK51 COMPANION
BANK OF AMERICA WAREHOUSE	BANK5 2023-5YR1	BANK5 2023-5YR1 COMPANION
BANK5 2023-5YR2	BANK5 2023-5YR2 COMPANION	BANK5 2023-5YR3
BANK5 2023-5YR3 COMPANION	BANK5 2023-5YR4	BANK5 2024-5YR10
BANK5 2024-5YR10 COMPANION	BANK5 2024-5YR11	BANK5 2024-5YR11 COMPANION
BANK5 2024-5YR12	BANK5 2024-5YR12 COMPANION	BANK5 2024-5YR5
BANK5 2024-5YR5 COMPANION	BANK5 2024-5YR6	BANK5 2024-5YR6 COMPANION
BANK5 2024-5YR7	BANK5 2024-5YR8	BANK5 2024-5YR8 COMPANION
BANK5 2024-5YR9	BANK5 2024-5YR9 COMPANION	BANK5 2025 - 5YR14
BANK5 2025-5YR13	BANK5 2025-5YR13 COMPANION	BANK5 2025-5YR14 COMPANION

BANK5 2025-5YR15	BANK5 2025-5YR15 COMPANION	BANK5 2025-5YR16
BANK5 2025-5YR16 COMPANION	BANK5 2025-5YR17	BANK5 2025-5YR17 COMPANION
BANK5 2025-5YR18	BANK5 2025-5YR18 COMPANION	BANK5 2025-5YR19
BANK5 2025-5YR19 COMPANION	BARCLAYS WAREHOUSE	Basis (BIG Real Estate Finance II, LLC)
BASIS BIG REAL ESTATE WAREHOUSE	BASIS RE CAPITAL II (REPO)	Bayview Commercial Mortgage Finance LLC
BAYVIEW WAREHOUSE	BBCMS 2015-MSQ	BBCMS 2015-MSQ COMPANION
BBCMS 2016-ETC	BBCMS 2016-ETC COMPANION	BBCMS 2017 C1 Companion
BBCMS 2017-C1	BBCMS 2018-BXH	BBCMS 2018-C2
BBCMS 2018-C2 COMPANION	BBCMS 2018-CHR	BBCMS 2018-CHRS COMPANION
BBCMS 2018-EXCL	BBCMS 2019-C4	BBCMS 2019-C4 COMPANION
BBCMS 2020-C7	BBCMS 2020-C7 COMPANION	BBCMS 2020-C8
BBCMS 2021-C11	BBCMS 2021-C11 COMPANION	BBCMS 2024-5C25
BBCMS 2024-5C27	BBCMS 2024-5C27 COMPANION	BBCMS 2024-C26
BBCMS 2024-C26 COMPANION	BBCMS 2024-C28	BBCMS 2024-C28 COMPANION
BBCMS 2025-5C34	BBCMS 2025-5C34 COMPANION	BBCMS 2025-5C36
BBCMS 2025-5C36 COMPANION	BBCMS 2025-5C38	BBCMS 2025-5C38 COMPANION
BBCRE 2015-GTP	BBSG 2016-MRP	BB-UBS 2012-SHOW
BB-UBS 2012-TFT	BDS 2018-FL2 COMPANION	BDS 2019-FL4
BDS 2019-FL4 COMPANION	BDS 2020-FL5	BDS 2020-FL5 COMPANION
BDS 2020-FL6	BDS 2021-FL10	BDS 2021-FL10 COMPANION
BDS 2021-FL7	BDS 2021-FL7 COMPANION	BDS 2021-FL8
BDS 2021-FL9	BDS 2021-FL9 COMPANION	BDS 2022-FL11
BDS 2022-FL11 COMPANION	BDS 2022-FL12	BDS 2022-FL12 COMPANION
BDS 2024-FL13	BDS 2024-FL13 COMPANION	BDS 2025-FL14
BDS 2025-FL14 COMPANION	BDS 2025-FL15	BDS 2025-FL15 COMPANION
BDS 2025-FL16	BDS 2025-FL16 COMPANION	BDS III Mortgage Capital G LLC
BDS III Mortgage Capital J LLC	BDS III MORTGAGE CAPITAL LLC	BDS III REIT Inc.
BDS IV MORTGAGE CAPITAL G LLC	BDS IV MORTGAGE CAPITAL J LLC	BDS IV Mortgage Capital LLC
BDS IV Mortgage Capital M LLC	BDS IV Mortgage Capital S LLC	BDS IV MORTGAGE CAPITAL W LLC
BDS V MORTGAGE CAPITAL G LLC	BDS V MORTGAGE CAPITAL LLC	BDS V Mortgage Capital M LLC
BDS V Mortgage Capital S L	BDS V MORTGAGE CAPITAL W LLC	BDS V REIT LLC
BENCHMARK 2018-B1	BENCHMARK 2018-B1 COMPANION	BENCHMARK 2019-B9
BENCHMARK 2019-B9 COMPANION	BENEFIT STREET PARTNERS	BERKSHIRE MEZZ
BFLD 2024-UNIV	BFLD 2025-SMW	BFLD 2025-660F
BGL Pinchurst 2023-1	BHMS 2018-ATLS	BHMS 2025-ATLS
BHR 2018-PRME	BIG Real Estate Fund III, L.P.	BIG Real Estate Investments II
BIG REAL ESTATE INVESTMENTS II	BIG Real Estate Securities III	BLACKROCK WELLS FARGO WH
BLACKSTONE (BRE/MWT)	BLP 2023-IND	BLP 2025-IND
BMARK 2018- B5	BMARK 2018-B4	BMARK 2018-B4 COMPANION
BMARK 2018-B5 COMPANION	BMARK 2024-V12	BMARK 2024-V12 COMPANION

BMARK 2024-V8	BMARK 2025-V15	BMARK 2025-V15 COMPANION
BMARK 2025-V16	BMARK 2025-V16 COMPANION	BMARK 2025-V17
BMARK 2025-V17 COMPANION	BMARK 2025-V18	BMARK 2025-V18 COMPANION
BMD-III Village Club, LLC	BMO 2024-5C3	BMO 2024-5C3 COMPANION
BMO 2024-5C8	BMO 2024-5C8 COMPANION	BMO 2024-C8
BMO 2025-C12	BMO 2025-C12 COMPANION	BPR 2021-TY
BPR 2022-OANA	BPR 2022-STAR	BPR 2023-STON
BPR 2024-PARK	BPR 2024-PARK COMPANION	BPR 2024-PMDW
BPR 2025-STAR	BRDIGE BDS III WELLS REPO	BRE Investment Holding II Corp
BREDS V US Investments 3 LLC	BREDS V US Investments 5 L.L.C	BRES 2025-ATCAP
BRIGADE CAPITAL MGMT WAREHOUSE	BSB06001	BSC04PWR3
BSC04PWR6	BSC05PWR10	BSC05PWR7
BSC05PWR8	BSC05PWR9	BSC06PWR13
BSC07PWR15	BSC07PWR16	BSC07PWR17
BSC07PWR18	BSCM06TOP24	BSCM07TOP26
BSCM07TOP28 (COMPANION) 2_STARWOOD	BSCMS05TOP20 (COMPANION) 1_NYLIFE	BSCMS05TOP20 (COMPANION) 2_HARTFORDLIFE
BSCMS05TOP20 (COMPANION) 3_METLIFE	BSPCC II WAREHOUSE	BSPRT SUB LENDER II, LLC WH
BSREP 2021-DC	BWAY 2013-1515	BWAY 2015-1740
BX 2021-21M	BX 2021-PAC	BX 2021-VIEW
BX 2021-VINO	BX 2021-XL2	BX 2022-AHP
BX 2022-CSMO	BX 2022-GPA	BX 2024-AIR2
BX 2024-AIRC	BX 2024-MF	BX 2024-PAT
BX 2025-ARIA	BX 2025-ARIA COMPANION	BX 2025-BCAT
BXHPP 2021-FILM	BXMT 2025-FL5	BXMT 2025-FL5 COMPANION
BXP 2017-CC	BXP 2017-CC COMPANION	BXP 2017-GM
BXP 2017-GM COMPANION	BXP 2021-601L	BXP 2021-601L COMPANION
BXT 2017-CQHP	CALI 2024-SUN	CAMB 2019-LIFE
CANTOR CRE LENDING LP	CANTOR REPO WITH MET LIFE	CAPITAL LEASE WAREHOUSE-526
CAPITAL SOURCE RELT 2006-A	CARMEL PARTNERS	CD 2006-CD2
CD 2016-CD2	CD 2016-CD2 COMPANION	CD 2017-CD5
CD 2017-CD5 COMPANION	CD 2017-CD6	CD 2017-CD6 COMPANION
CF RFP SELLER WAREHOUSE	CF TRANS SELLER II WAREHOUSE	CF TRANS SELLER III WAREHOUSE
CFCRE 2016-C3	CFCRE 2016-C3 COMPANION	CFCRE 2016-C4
CFCRE 2016-C6	CFCRE 2016-C6 COMPANION	CFCRE 2017-C8
CFCRE 2017-C8 COMPANION	CG FUNDING I LLC	CG FUNDING II LLC
CGCMT 2013-GC15	CGCMT 2013-GC17	CGCMT 2014-GC19
CGCMT 2014-GC21	CGCMT 2014-GC25	CGCMT 2015-101A
CGCMT 2015-GC27	CGCMT 2015-GC31	CGCMT 2015-GC33
CGCMT 2015-GC33 Companion	CGCMT 2015-P1	CGCMT 2015-P1 Companion

CGCMT 2016-C1	CGCMT 2016-C1 COMPANION	CGCMT 2016-GC37
CGCMT 2016-P3	CGCMT 2016-P4	CGCMT 2016-P4 COMPANION
CGCMT 2017-B1	CGCMT 2017-B1 COMPANION	CGCMT 2017-P7
CGCMT 2017-P7 COMPANION	CGCMT 2017-P8	CGCMT 2017-P8 COMPANION
CGCMT 2018-C6	CGCMT 2018-C6 COMPANION	CGCMT 2019-C7
CGCMT 2019-C7 COMPANION	CGCMT 2019-GC43	CGCMT 2019-GC43 COMPANION
CHI 2025-110W	CHI 2025-SFT	CHINA ORIENT ENHANCED INCOME
CIP 2025-SBAY	CITI REAL ESTATE FUNDING WH	CITIGROUP 2006 C5
CITIGROUP 2007-C6	CITIGROUP 2012-GC8	CITIGROUP 2012-GC8 COMPANION
CITIGROUP 2013-375P	CITIGROUP 2013-375P COMPANION	CITIGROUP 2013-GC11
CITIGROUP GLOBAL MARKETS REALTY CORP	CL Servicing LLC	CLAROS MORTGAGE TRUST WAREHOUSE
CLMT 2016-CLNE	CLNC CREDIT 6 LLC	CLNC Credit 7, LLC
CLNC SL SILICON, LLC	CLNS 2017-IKMZ COMPANION	CMTG GS FINANCE (MACK RE)
COAST 2023-2HTL	COBALT 2007-C2	COLONY COLFINNOMA WAREHOUSE
Colony Northstar Credit Real Estate Inc	COLONY NSTAR (CLNC Credit 8 LLC) REPO	COMM 2009-K4
COMM 2010-C1	COMM 2012-CCRE1	COMM 2012-CCRE2
COMM 2012-CCRE3	COMM 2012-CCRE4	COMM 2012-CCRE4 COMPANION
COMM 2012-LC4	COMM 2013-CCRE10	COMM 2013-CCRE10 COMPANION
COMM 2013-CCRE12	COMM 2013-CCRE13	COMM 2013-CCRE6
COMM 2013-SFS	COMM 2014-277P	COMM 2014-CCRE14
COMM 2014-CCRE14 COMPANION	COMM 2014-CCRE15	COMM 2014-CCRE20
COMM 2014-CCRE20 COMPANION	COMM 2014-FL5	COMM 2014-LC15
COMM 2014-LC15 COMPANION	COMM 2014-LC17	COMM 2014-UB6
COMM 2014-UBS3	COMM 2014-UBS3 COMPANION	COMM 2014-UBS5
COMM 2014-UBS5 COMPANION	COMM 2015-3BP	COMM 2015-CCRE22
COMM 2015-CCRE23	COMM 2015-CCRE23 COMPANION	COMM 2015-CCRE24
COMM 2015-CCRE24 COMPANION	COMM 2015-CCRE25	COMM 2015-CCRE26
COMM 2015-CCRE26 COMPANION	COMM 2015-LC23	COMM 2015-PC1
COMM 2016-787S	COMM 2016-787S COMPANION	COMM 2016-CCRE28
COMM 2016-DC2	COMM 2016-DC2 COMPANION	COMM 2017-PANW
COMM 2018-HOME	COMM 2018-HOME COMPANION	COMM 2020-CX
COMM 2020-CX COMPANION	COMM 2025-180W	COMM 2025-180W COMPANION
COMM07FL14 (COMPANION) 2, SOCIETE GENERAL	COMMUNITY SOUTH BANK PORTFOLIO	CORE 2019-CORE
COUNTRYWIDE 2007-MF1	CPTS 2019-CPT	CPTS 2019-CPT COMPANION
CRB 2025-CRE1	CREO LENDING LP	CREO Lending S1 LLC
CREST 2003-2	CS FIRST BOSTON 1998 C2	CSAIL 2015-C2
CSAIL 2015-C2 COMPANION	CSAIL 2015-C4	CSAIL 2016-C7
CSAIL 2017-C8	CSAIL 2017-C8 COMPANION	CSAIL 2018 -CX12
CSAIL 2018-C14	CSAIL 2018-C14 COMPANION	CSAIL 2018-CX12 COMPANION
CSCMT 2007-C2	CSFB94CFB1	CSMC 2014-USA

CSMC 2016-NXSR	CSMC 2016-NXSR COMPANION	CSMC 2017-CHOP
CSMC 2017-PFHP	CSMC 2017-TIME	CSMC 2018-SITE
CSMC 2018-SITE COMPANION	CSMC 2022-LION COMPANION	CSMC22LION
CSTL 2025-GATE2	CSWF 2018-TOP	CSWF 2021-SOP2
DAVIS COMPANIES WAREHOUSE	DBCCRE 2014-ARCP	DBCG 2017-BBG
DBGS 2018-1	DBGS 2018-C1 COMPANION	DBJPM 2016-C1
DBJPM 2016-C1 COMPANION	DBJPM 2016-SFC	DBJPM 2016-SFC COMPANION
DBUBS 2011- LC3	DBUBS 2011-LC2	DBUBS 2017-BRBK
DBUBS 2017-BRBK COMPANION	DBWF 2015-LCM	DBWF 2016-8ST
DBWF 2016-8ST COMPANION	DBWF 2024-LCRS	DCOT 2019-MTC
DCOT 2019-MTC COMPANION	DELPHI CRE FUNDING (ACORE WAREHOUSE)	DEUTSCHE TRUST COMPANY LIMITED
DEXIA REAL ESTATE CAPITAL MARK	DK ASH MEZZ C LLC	DOLLAR GENERAL
Delp Trust 2021-NYC	DPT 2023-STE2	DRAWBRIDGE WAREHOUSE
DURST 2025-151	ELLKOTT WAREHOUSE	ELM 2024-ELM (10 Pack)
ELM 2024-ELM (15 Pack)	ESA 2025-ESH	FG MANAGEMENT (FGUSRED) WAREHOUSE
FII F DEBT ACCT PTE LTD	FORT CRE 2022-FL3	FORT CRE 2022-FL3 COMPANION
FORTRESS (CF TRANS HOLDCO LLC) WAREHOUSE	FORTRESS REPO WITH NATIXIS	FRE MIC Finance LP
FREMF 2013-K29	FREMF 2013-K30	FREMF 2013-K31
FREMF 2013-K33	FREMF 2013-K34	FREMF 2014-K36
FREMF 2014-K40	FREMF 2015-K42	FREMF 2015-K44
FREMF 2015-K47	FREMF 2015-K48	FREMF 2015-K51
FREMF 2015-KS03	FREMF 2016-KF18	FREMF 2016-K53
FREMF 2016-K55	FREMF 2016-K57	FREMF 2016-K59
FREMF 2016-K60	FREMF 2016-KF14	FREMF 2016-KF19
FREMF 2016-KIR1	FREMF 2016-KS06	FREMF 2016-KS07
FREMF 2016-KW01	FREMF 2017-K61	FREMF 2017-K64
FREMF 2017-K65	FREMF 2017-K67	FREMF 2017-K69
FREMF 2017-K729	FREMF 2017-KBF1	FREMF 2017-KF27
FREMF 2017-KF28	FREMF 2017-KF36	FREMF 2017-KF37
FREMF 2017-KF40	FREMF 2017-KGS1	FREMF 2017-KL01
FREMF 2017-KS08	FREMF 2017-KT01	FREMF 2017-KW02
FREMF 2018-K1507	FREMF 2018-K731	FREMF 2018-K76
FREMF 2018-K77	FREMF 2018-K78	FREMF 2018-K81
FREMF 2018-K84	FREMF 2018-KBX1	FREMF 2018-KC02
FREMF 2018-KF42	FREMF 2018-KF43	FREMF 2018-KF46
FREMF 2018-KF48	FREMF 2018-KF49	FREMF 2018-KF50
FREMF 2018-KF52	FREMF 2018-KF55	FREMF 2018-KF56
FREMF 2018-KHG1	FREMF 2018-KL02	FREMF 2018-KL03
FREMF 2018-KS10	FREMF 2018-KSL1	FREMF 2018-KSW4

FREMF 2018-KW07	FREMF 2019-K100	FREMF 2019-K102
FREMF 2019-K1510	FREMF 2019-K1513	FREMF 2019-K734
FREMF 2019-K735	FREMF 2019-K87	FREMF 2019-K89
FREMF 2019-K92	FREMF 2019-K94	FREMF 2019-K95
FREMF 2019-K96	FREMF 2019-KBF3	FREMF 2019-KC05
FREMF 2019-KF61	FREMF 2019-KF63	FREMF 2019-KF72
FREMF 2019-KF73	FREMF 2019-KL04	FREMF 2019-KS11
FREMF 2019-KS12	FREMF 2019-KS13	FREMF 2019-KW10
FREMF 2020-K108	FREMF 2020-K114	FREMF 2020-K115
FREMF 2020-K116	FREMF 2020-KF75	FREMF 2020-KF78
FREMF 2020-KF79	FREMF 2020-KF81	FREMF 2020-KF82
FREMF 2020-KF88	FREMF 2020-KF89	FREMF 2020-KF90
FREMF 2020-KF91	FREMF 2020-KF92	FREMF 2020-KF93
FREMF 2020-KF95	FREMF 2020-KG04	FREMF 2020-KHG2
FREMF 2020-KJ32	FREMF 2020-KS14	FREMF 2021-K123
FREMF 2021-K126	FREMF 2021-K1522	FREMF 2021-K743
FREMF 2021-KF100	FREMF 2021-KF102	FREMF 2021-KF105
FREMF 2021-KF106	FREMF 2021-KF108	FREMF 2021-KF111
FREMF 2021-KF117	FREMF 2021-KF119	FREMF 2021-KF121
FREMF 2021-KF122	FREMF 2021-KF96	FREMF 2021-KF97
FREMF 2021-KF99	FREMF 2021-KG06	FREMF 2021-KI07
FREMF 2021-KSG2	FREMF 2022-K750	FREMF 2022-KF128
FREMF 2022-KF130	FREMF 2022-KF131	FREMF 2022-KF132
FREMF 2022-KF134	FREMF 2022-KF135	FREMF 2022-KF137
FREMF 2022-KF138	FREMF 2022-KF140	FREMF 2022-KF141
FREMF 2022-KF142	FREMF 2022-KF143	FREMF 2022-KF145
FREMF 2022-KF146	FREMF 2022-KF148	FREMF 2022-KI09
FREMF 2022-KJ41	FREMF 2023-K159	FREMF 2023-K160
FREMF 2023-K508	FREMF 2023-K511	FREMF 2023-K751
FREMF 2023-K752	FREMF 2023-KF149	FREMF 2023-KF151
FREMF 2023-KF153	FREMF 2023-KF154	FREMF 2023-KF155
FREMF 2023-KF158	FREMF 2023-KF160	FREMF 2023-KF161
FREMF 2023-KG08	FREMF 2023-KS15	FREMF 2024-K165
FREMF 2024-K166	FREMF 2024-K167	FREMF 2024-K513
FREMF 2024-K517	FREMF 2024-K519	FREMF 2024-K521
FREMF 2024-K529	FREMF 2024-K530	FREMF 2024-K531
FREMF 2024-K757	FREMF 2024-KF163	FREMF 2024-KF164
FREMF 2024-KJ51	FREMF 2024-KJ52	FREMF 2024-Q026
FREMF 2025-K169	FREMF 2025-K541	FREMF 2025-K542
FREMF 2025-KF166	FREMF 2025-Q036	FRETE 2017-ML01

FRETE 2017-ML03	FRETE 2022-ML14	FRETE 2024-ML27
FS CREIT FINANCE BMO-1 LLC	FS CREIT Finance CO-1 LLC	FS CREIT FINANCE GS1
FS CREIT Finance JP-1 LLC	FS CREIT FINANCE MM-1 LLC	FS CREIT FINANCE MS-1 LLC
FS CREIT FINANCE NTX-1 LLC	FS CREIT FINANCE WF-1 LLC	FS CREIT Finance WF-2 LLC
FS RIALTO 2019- FL1 CLO PARTI	FS RIALTO 2019-FL1	FS RIALTO 2021-FL2
FS RIALTO 2021-FL2 CLO PARTI	FS RIALTO 2021-FL3	FS RIALTO 2021-FL3 CLO PARTI
FS RIALTO 2022-FL4	FS RIALTO 2022-FL4 PARTICIPATI	FS RIALTO 2022-FL5
FS RIALTO 2022-FL5 PARTICIPATI	FS RIALTO 2022-FL6	FS RIALTO 2022-FL6 PARTICIPATI
FS RIALTO 2022-FL7	FS RIALTO 2022-FL7 PARTICIPATI	FS Rialto 2025-FL10
FS Rialto 2025-FL10 PARTICIPAT	GCCP H-1, LLC (GROSSMAN)	GE 2006 C1
GECMC 2007-C1	GEMINI ALTO CENTERVILLE WAREHOUSE	GERMAN AMERICAN CAPITAL CORPORATION WH
GOLDMAN 2007-GG10	GOLDMAN SACHS 2005-ROCK	GOLDMAN SACHS WAREHOUSE
GP COMMERCIAL WF LLC REPO	GPMT 2018-FL1 COMPANION	GPMT 2019-FL2 COMPANION
GRACE 2020-GRCE	GRACE 2020-GRCE COMPANION	GRASS RIVER SUB AGREEMENT
GREENWICH CCFC 05 GG5 (COMPANION)	GREENWICH CCFC 2007-GG9	GREENWICH CCFC 2007-GG9 COMPANION
GSAT 2025-BMF	GSMC 2013-G1	GSMS 2011-GC3
GSMS 2011-GC5	GSMS 2012-BWTR	GSMS 2012-GC7
GSMS 2012-GC7 COMPANION	GSMS 2012-GC9	GSMS 2013-GC10
GSMS 2013-GC13	GSMS 2013-GC12	GSMS 2013-GC14
GSMS 2013-GC16	GSMS 2014-GC18	GSMS 2014-GC22
GSMS 2014-GC22 COMPANION	GSMS 2014-GC26	GSMS 2015-590M
GSMS 2015-590M COMPANION	GSMS 2015-GC28	GSMS 2015-GC34
GSMS 2015-GC34 COMPANION	GSMS 2016 GS4	GSMS 2016-GS4 COMPANION
GSMS 2016-RENT COMPANION	GSMS 2017-375H	GSMS 2017-GS7
GSMS 2017-GS8	GSMS 2017-GS8 COMPANION	GSMS 2017-SLP
GSMS 2017-SLP REIT	GSMS 2018-3PCK	GSMS 2018-GS10
GSMS 2018-GS10 COMPANION	GSMS 2018-GS9	GSMS 2018-GS9 COMPANION
GSMS 2018-LU/AU	GSMS 2018-RIVR	GSMS 2018-SRP5
GSMS 2018-TWR	GSMS 2019-GC38	GSMS 2019-GC38 COMPANION
GSMS 2020-GC47	GSMS 2020-GC47 COMPANION	GSMS 2021-ARDN
GSMS 2021-GSA3	GSMS 2021-GSA3 COMPANION	GSMS 2021-IP
GSMSC 2010-C1	Hana Alternative Private Real Estate Trust No. 71	Hancock Capital Investment Management
HANCOCK/OPTUM BANK WAREHOUSE	HANGANG WAREHOUSE	HBST 2015-HBS
HERA 2021-FL1	HILT 2024-ORL	HILTON 2016-HHV
HILTON 2016-HHV COMPANION	HILTON 2016-SFP	HMH 2017-NSS
HRCP AIV II DLI CIG, LLC	HRCP DLI ATLS, LLC & HRCP AIV	HRCP DLI CIG, LLC
HRCP DLI DB, LLC	HUDSON YARDS 2016-10HY	HUDSON YARDS 2016-10HY COMPAN
HUDSON YARDS 2019-30HY	HUDSON YARDS 2019-30HY COMPAN	HUDSON YARDS 2019-55HY
HUDSON YARDS 2019-55HY COMPAN	HY 2025-SPRL	HY 2025-SPRL COMPANION

HYT 2024-RGCV	HYUNDAI INVESTMENTS (10HY MEZZ)	ICNQ 2024-MF
ICNQ 2024-MF COMPANION	IMT 2017-APTS	INLAND (IMC LENDING LLC) WAREHOUSE
INLAND (INLAND MORTGAGE CAPITAL)	Inland Mortgage Capital LLC Warehouse	Inland Mortgage Lending REPO
Impoint CS Loan (soundpoint Credit Suisse Repo)	INPOINT JPM WAREHOUSE	INPOINT REIT OPERATING PARTNER
INT 2025-PLAZA	INT 2025-PLAZA COMPANION	INTOWN 2022-STAY
INTOWN 2025-STAY	Invesco CMI Investments, LP	IRV 2025-200P
IRVINE CORE OFFICE TRUST 2013-IRV	JAWS EQUITY OWNER 229, L.L.C.	JAX 2019-LIC
JEMB MADISON AVE LLC (BASIS 1 - 292 MAD)	JLC VII WAREHOUSE	JLC WAREHOUSE IV LLC (DEUTSCHE REPO)
John Hancock GA Mortgage Trust	JP MORGAN CHASE	JPM 2012-CIBX COMPANION
JPM Hilton Orlando Trust 2018-HLTNO	JPM06CIBC15	JPM06CIBC17
JPM2007LDP12	JPMBB 2013-C15	JPMBB 2013-C17
JPMBB 2013-C17 COMPANION	JPMBB 2014-C21	JPMBB 2014-C22
JPMBB 2014-C23	JPMBB 2014-C24	JPMBB 2014-C25
JPMBB 2014-C25 COMPANION	JPMBB 2015-C28	JPMBB 2015-C29
JPMBB 2015-C30	JPMBB 2015-C30 COMPANION	JPMBB 2015-C32
JPMBB 2015-C32 COMPANION	JPMBB 2015-C33	JPMBB 2016-C1
JPMC 2003 ML1	JPMC 2005-LDP2	JPMC 2006-LDP9
JPMC 2006-LDP9 COMPANION	JPMC 2012-CIBX	JPMC 2014-C20
JPMC 2014-C20 COMPANION	JPMCC 2007-LDP11	JPMCC 2012-C6
JPMCC 2013-C16	JPMCC 2014-DSTY	JPMCC 2015-JP1
JPMCC 2015-JP1 COMPANION	JPMCC 2016-JP2	JPMCC 2016-JP2 COMPANION
JPMCC 2016-JP4	JPMCC 2016-JP4 COMPANION	JPMCC 2016-NINE
JPMCC 2016-NINE COMPANION	JPMCC 2017-FL10 COMPANION	JPMCC 2017-JP7
JPMCC 2017-MARK COMPANION	JPMCC 2018-ASH8	JPMCC 2018-PTC
JPMCC 2018-PTC COMPANION	JPMCC 2021-2NU	JPMDB 2016-C2
JPMDB 2016-C2 COMPANION	JPMDB 2016-C4	JPMDB 2016-C4 COMPANION
JPMDB 2017-C5	JPMDB 2018-C8	JPMDB 2018-C8 COMPANION
JW 2024-MRCO	KIWOOM 18 WAREHOUSE	KIWOOM NONGHYUP WAREHOUSE
KSL 2023-HT	KSL 2024-HT2	KSL 2025-MAK
KSL 2025-MH	KTB CRE Debt Fund No. 14-1 & KTB CRE Debt Fund No. 14-2	Ladder Capital Finance LLC
LADDER CAPITAL IX WAREHOUSE	LADDER CAPITAL LLC REPO	LADDER CAPITAL REALTY III LLC
LADDER CAPITALVIII REPO	Ladder CRE Finance REIT Inc	LADDER DEUTSCHE REPO
LADDER JPM REPO	LADDER VI REIT WAREHOUSE	LADDER VI TRS WAREHOUSE
LADDER WELLS FARGO REPO	LB 1999 C1	LB UBS 2004 C6
LB UBS 2005 C1 COMPANION	LB UBS 2006-C4 COMPANION	LB UBS 2006-C6
LB UBS 2006-C7	LB-UBS 2005 C7	LB-UBS 2005-C7 COMPANION
LB-UBS 2006 C1 COMPANION	LB-UBS 2006-C3 COMPANION	LB-UBS 2007-C2
LB-UBS 2007-C6	LB-UBS 2007-C7	LBUBS05C3
LBUBS2005C3 COMPANION	LCCM 2017-LC26	LCCM 2017-LC26 COMPANION

LCCM 2021-FL2	LCCM 2021-FL2 COMPANION	LCCM 2021-FL3
LCCM 2021-FL3 COMPANION	LCCM2013GCP	LCF UBS Bank Repo
LEHMAN-UBS 2005 C5 COMPANION	LEONARDO ASSET FUND	Leonardo Asset Fund LLC
LEONARDO PREFERRED INVESTMENTS	LIBREMAX WAREHOUSE	LIDO FUNDING LLC (STARWOOD)
LOANCORE (JEFFERIES) WAREHOUSE	LOANCORE CAPITAL REIT WAREHOUSE	LOEWS 2024-MIA
LONE STAR REPO WITH WELLS FARGO	LSTAR 2015-3	LSTAR 2016-4
LSTAR 2017-5	LSTAR 1 LLC REPO	LV 2024-SHOW
M360 2018-CRE1 COMPANION	M360 2019-CRE2	M360 2019-CRE2 COMPANION
MAC 2024-LION	MAC 2025-801B	MAD 2017-330M
MAD 2025-11MD	MANHATTAN WEST 2020-1MW	MANHATTAN WEST 2020-1MW COMPANION
MARATHON ASSET MANAGEMENT, LLC	MARATHON MAM REPO	MARATHON REAL ESTATE CDO 2006-1
Masterm US Private Real Estate	MCR 2024-TWA	MED 2021-MDLN
MED 2024-MOB	MERITZ AIM	MERRILL LYNCH 2008-C1
MEZZ CAP 2006-C4	MEZZ CAP 2007-C5	MEZZ MEZZANINE
MHP 2025-MHIL2	MIDAS ASSET WAREHOUSE	MIDDLE MARKET BANKING
MILLINIUM INMARK NONGHYUP	Mirac Asset Management	MKT 2020-525 COMPANION
MKT 2020-525M	ML 1997-C2	ML-CFC 2006-1
ML-CFC 2007-6	ML-CFC 2007-7	MLCFC07-5
MLCFC07-8	MLCFC07-9	MLFT 2006-1 (COMPANION)_CAPTRUST
MLMT 2005-CK11	MLMT06C1	MOFT 2020 - ABC
MOFT 2020 - ABC COMPANION	MORGAN STANLEY	MORGAN STANLEY 2011-C3
MORGAN STANLEY 2020-HR8	MORGAN STANLEY BAML 2012-C6	MORGAN STANLEY SHADOW
MORGAN STANLEY WAREHOUSE	Mount Street US (Georgia) LLP	MS06TOP21
MS06TOP23	MS07TOP25	MSBAM 2013-C11
MSBAM 2013-C11 COMPANION	MSBAM 2013-C12	MSBAM 2013-C12 COMPANION
MSBAM 2013-C13	MSBAM 2013-C8	MSBAM 2014-C14
MSBAM 2014-C15	MSBAM 2014-C15 COMPANION	MSBAM 2014-C16
MSBAM 2014-C17	MSBAM 2014-C18	MSBAM 2014-C19
MSBAM 2014-C19 COMPANION	MSBAM 2015-C22	MSBAM 2015-C22 COMPANION
MSBAM 2015-C23	MSBAM 2015-C23 COMPANION	MSBAM 2015-C24
MSBAM 2015-C25	MSBAM 2015-C25 COMPANION	MSBAM 2015-C26
MSBAM 2015-C27	MSBAM 2016-C28	MSBAM 2016-C28 COMPANION
MSBAM 2016-C29	MSBAM 2016-C30	MSBAM 2016-C30 COMPANION
MSBAM 2016-C31	MSBAM 2016-C31 COMPANION	MSBAM 2016-C32
MSBAM 2017-C33	MSBAM 2017-C33 COMPANION	MSBAM 2017-C34
MSBAM 2017-C34 COMPANION	MSBAM 2025-5C2	MSBAM 2025-5C2 COMPANION
MSC 2015-420	MSC 2015-420 COMPANION	MSC 2016-BNK2
MSC 2016-BNK2 Companion	MSC 2017-ASHF	MSC 2017-HR2
MSC 2018-H3	MSC 2018-H3 COMPANION	MSC 2018-MP
MSC 2018-MP COMPANION	MSC 2019-L3	MSC 2019-L3 COMPANION

MSC 2019-MEAD	MSC 2021-PLZA	MSC 2024-NSTB
MSC05HQ6 (COMPANION)_PRUDENTIAL	MSC05HQ7	MSC06HQ10
MSC07HQ12	MSC07HQ13	MSC07IQ16
MSCBB 2016-MART COMPANION	MSCCG 2018-SELF	MSCI 2005-TOP19 COMPANION
MSCI 2016-PSQ	MSCI06HQ8	MSDB 2017-712F
MSJP 2015-HAUL	MSMCH and CGML Owner	MSSG 2017-237P
MSSG 2017-237P COMPANION	MSWF 2023-1	MSWF 2023-1 COMPANION
MSWF 2023-2	MSWF 2023-2 COMPANION	NATIXIS WAREHOUSE
NCMS 2018-850T COMPANION	NCMS 2018-ALXA	NCMS 2018-ALXA COMPANION
NCMS 2018-FL1	NCMS 2018-FL1 COMPANION	NCMS 2018-PREZ COMPANION
NCMS 2018-SOX	NCMS 2018-SOX COMPANION	NCMS 2018-TECH
New York Life Insurance Compan	NOHT 2019-HNLA	NORTHSTAR (NS HEALTHCARE PT 2) WAREHOUSE
NORTHSTAR DB LOAN NT-II REPO	NORTHSTAR WAREHOUSE	NORTHSTAR-CITI REPO WAREHOUSE
NStar (MS Loan NT-I, LLC) MS Repo	NWL Company, LLC	NWL Company, LLC
NXT CAPITAL FUNDING II, LLC	NY 2025-299P	NY 2025-299P COMPANION
NYC 2025-1155	NYC 2025-3BP	NYT 2019-NYT
NYT 2019-NYT COMPANION	OCM OXFORD WAREHOUSE	OMPT 2017-1MKT
One Bryant Park 2019-OBP	ONE LINCOLN 2004-C3	ONE WILLIAM STREET (OWS CF IV
ONE WILLIAM STREET (OWS CF V S	ONE WILLIAM STREET CAP MASTER FUND WH	ONE WILLIAM STREET CF A-2 SPV
ONE WILLIAM STREET CF IX SPV L	ONE WILLIAM STREET CF IX-A SPV	One William Street CF VIII LLC
ONE WILLIAM STREET CMBE MN B S	ONE WILLIAM STREET CMBE MN SPV	ONE WILLIAM STREET CRE FUND L,
One William Street CRE Funding	ONNI 2024-APT	ONYP 2020-INYP
OPC KMPM LLC (OAKPASS) WH	OREI I INVESTMENTS LLC (OHANA)	OREI II INVESTMENTS LLC (OHANA)
OWS Asset Backed Loans IV, LLC	OWS BACF SPV LLC (OWS WH)	OWS BCA FUNDING WAREHOUSE
OWS CF A, LLC	OWS CF B, LLC	OWS CF B-1 SPV, LLC
OWS CF C, LLC	OWS CF C-1 SPV, LLC	OWS CF D-1 SPV, LLC
OWS CF II SPV LLC Warehouse	OWS CF SUB I WAREHOUSE	OWS CF VI SPV WAREHOUSE
OWS COMMERCIAL FUNDING 7 WAREH	OWS COMMERCIAL FUNDING II, LTD	OWS COMMERCIAL MEZZ WAREHOUSE
OWS CRE Funding III, LLC	OWS I ACQUISITIONS, LLC WH	OXFORD PROPERTIES WAREHOUSE
OXFORD PROPERTIES WAREHOUSE 2	PCRED LENDING II OFFSHORE WH	PCRED LENDING IV WAREHOUSE
PCRED LENDING V COMPANION	PCRED LENDING V WAREHOUSE	PCT 2016-PLSD
PDILS PCILS PFLEX (PIMCO)	PERSI WF WAREHOUSE	PPF 2019-6 CLO
PPF 2025-12	PPF 2025-12 COMPANION	PPF 9 Sub 1, L.P.
PPF 9 Sub 10, L.P.	PPF 9 SUB 3 LP	PPF 9 Sub 7, LP
PPF 9 Sub 8, LP	PPF 9 Sub 9, L.P.	PPF V SUB I LLC REPO
PPF V SUB II LLC	PPFIII	PGA 2023-RSRT
PILLAR FUNDING LLC WAREHOUSE	PIMCO (TOCU I LLC)	PIMCO (TOCU II AND GCCU II) WH
PIMCO Bermuda Trust II: Pimco Bermuda Income Fund	PIMCO FUND WAREHOUSE	PIMCO Funds: PIMCO Income Fund
PIMCO Funds: PIMCO Total Return Fund	POLC HOLDINGS I LLC MEZZ WH	POTOMAC TOWER 2022-1

PRIME PFP VI SUB I Warehouse	PRIME PFP VI SUB IX Warehouse	PRIME FINANCE CO 9 PFP 9 SUB 2
PRIME FINANCE PARTNERS II, L.P.	PRIME MORGAN STANLEY REPO	PRIME PFP (CAPITAL ONE REPO)
PRIME PFP (CITI REPO)	PRIME PFP VI SUB XI LLC	PRIME PFP VI WAREHOUSE
PRM 2025-PRM6	PRM7 2025-PRM7	PROPHET WAREHOUSE
PSBAmherst Finance Construction WH	PUBLIC STORAGE	QCMT13QC
QFP II, LP (QUADRANT)	Quadrant Debt Fund, LP	Quadrant Mezz Fund, LP (approved-QMP Management LLC)
RAITH RE FUND I LP WAREHOUSE	RAMSFIELD (CVI ESJ LLC) WAREHOUSE	RBSCF 2013-GSP
RBSCF 2013-SMV	RCC REAL ESTATE WAREHOUSE	RCP SUB WF REPO
Realterm Logistics Income Fund	REMIC ASSET HOLDINGS WAREHOUSE	RESOURCE (RCC REAL ESTATE SPE
RESOURCE CAPITAL CORP. WAREHOUSE	RESOURCE CAPITAL REPO WAREHOUSE	RESOURCE REPO (WF) WAREHOUSE
RFR 2025 - SGRM	RIAL 2022-FL8	RIAL 2022-FL8 PARTICIPATION
RIALTO BARCLAY FSCEIT REPO	Rialto Real Estate Fund III-Debt LP	RIALTO REPO WITH WF
RIALTO RREF-IV D WAREHOUSE	RIALTO WAREHOUSE 2013	RIALTO GOLDMAN REPO
RLCF Properties, LLC	RMF SUB 4 LLC (CITIREPO)	RMF SUB 5 (BARCLAYS REPO)
RMF SUB LLC WF REPO	RMF SUB2 LLC (RIALTO REPO)	ROC BRIDGE (BARCLAY REPO)
ROC DEBT STRATEGIES (BRIDGE RE)	ROC DEBT STRATEGIES II MORGAN	ROC DEBT STRATEGIES II WAREHOUSE
ROC DEBT STRATEGY FUND MANAGER LLC	ROCK 2024-CNTR	ROCK 2024-CNTR COMPANION
ROCKINCOME WAREHOUSE	ROCKWOOD (375 PARK) WAREHOUSE	ROCKWOOD CAPITAL LLC
ROCKWOOD CAPITAL REAL ESTATE	ROCKWOOD CAPITAL, LLC (NORTHROCK)	RREF III RIALTO WAREHOUSE
RREF IV-D DLI FINANCE LLC	RREF IV-D DLI Finance LLC 2	RREF V - D DLI Finance, LLC
RREF V - D DLI Finance, LLC 2	RREF V - D DLI GS, LLC	RREF V D DLI WF, LLC
RREF V-D Direct Lending, LLC	RSF XVI LLC PIMCO	SAMSUNG MEZZ LLC
SAPIR ORGANIZATION(1009 5TH AV	SAS WAREHOUSE 2013 (H2)	SCG 2023-NASH
SCG 2024-MSP	SCG 2025-FLWR	SCG 2025-SNIP
SCREDIT Mortgage Funding Sub -	SCREDIT Mortgage Funding Sub-1	SCREDIT Mortgage Funding Sub-2
SCREDIT Real Estate Capital, L	SCULPTOR CAF I	SCULPTOR WAREHOUSE
SDR 2024-DSNY	SEGREGATED ASSETS PLAN AXONIC	SFAVE 2015-SAVE
SG CAPITAL PARTNERS WAREHOUSE	SGCMS 2016-CS	SGCMS 2016-CS COMPANION
SGCMS 2019-787E	SGCMS 2019-787E COMPANION	SGCMS 2020-COVE
SHELTER GROWTH FUND I MRA WH	SHELTER GROWTH HEDGE FUND WH	SHELTER GROWTH OPPORTUNITIES
SHELTER OPPORTUNITIES WAREHOUSE	SILVERPEAK RE FINANCE LLC WAREHOUSE	SILVERSTEIN WAREHOUSE
SINGERMAN (RIDGMAR MEZZ LOAN)	SL GREEN - JPM REPO	SL GREEN REALTY CORP/GRAMERCY
SL GREEN WAREHOUSE	SLG 2021-OVA	SLG Opportunistic Debt Fund LP
SMC 2017-TIME COMPANION	SOCIETE GENERALE WAREHOUSE	SOUND MARK HORIZONS FUND LP WAREHOUSE
SOUND POINT CRE FINANCE - AFLACCREUS	SOUND POINT CRE FINANCE - AFLACINC	SOUND POINT CRE FINANCE - AFLACNXTJP
SOUND POINT CRE FINANCE - AFLACNXTUS	SOUND POINT CRE FINANCE - SPTAFLAC	SP OFFICE FUNDING LP (STARWOOD)
SPGN 2022-TFLM	SPREF WH II WF REPO	SPREF WH III (SILVERPEAK) COLUMN REPO
SPREF WH IV LLC (ARGENTIC)	SRE FW MEZZ WAREHOUSE (RIDGMAR MEZZ)	SREDS SK Mortgage Funding Sub-
SREDS SK MORTGAGE FUNDING SUB-	SREDS SK Real Estate Capital,	SREDS SQK Real Estate Capital
SREIT 2021-FLWR	SREIT 2021-IND	SREIT 2021-MFP

SREIT 2021-PALM	SRPT 2014-STAR	STARWOOD (JP MORGAN REPO)
STARWOOD CAP REPO	STARWOOD CITI REPO SUB 6	STARWOOD GLOBAL REAL ESTATE DE
STARWOOD METLIFE REPO	STARWOOD MORT FUNDING-MORGAN STANLEY REP	STARWOOD MORT SUB 18 AND SUB 1
STARWOOD MORTGAGE CAPITAL WAREHOUSE	STARWOOD MORTGAGE FUNDING V LL	STARWOOD MORTGAGE VII (BMO)
STARWOOD PROPERTY MORTGAGE LLC WAREHOUSE	Starwood Property Mortgage Sub	Starwood Property Mortgage Sub-19, LLC and Starwood Property Mortgage Sub-19-A LLC
STARWOOD PROPERTY MORTGAGE SUB-2, L.L.C.	STARWOOD SUB 14 REPO	STARWOOD SUB 22 -22A (BARCLAY
STARWOOD SUB 23 -23A (GOLDMAN)	STARWOOD SUB 24 -24A (BMO Harr	STARWOOD16 REPO
STIO 2025-BLGH	STRATEGIC ASSET SERVICES LLC W	STRATEGIC LAND JOINT VENTURE 2
STWD 2019-FL1	STWD 2019-FL1 COMPANION	STWD 2021-FL2
STWD 2021-FL2 COMPANION	STWD 2021-HTS	STWD 2021-LIH
STWD 2022-FL3	STWD 2022-FL3 COMPANION	STWD 2025-FL4
STWD 2025-FL4 COMPANION	SUMITOMO WAREHOUSE	SYCA 2025-WAG
SYCA 2025-WAG COMPANION	TACONIC/AXONIC 4000 WAREHOUSE	TCO 2022-DPM
TCO 2024-DPM	TEACHERS INSURANCE & ANNUITY ASSOCIATION	TIMES SQUARE HOTEL TRUST
TMSQ 2014-1500	TOCU II LLC (PIMCO ENTITY)	TOCU II, LLC (PIMCO SLAM)
TOLIS CINCI WAREHOUSE	TRE SPCM SERIES II PORTFOLIO	TRIANGLE (NORTHSIDE-ROSSER DEB
TRIANGLE (NORTHSIDE-ROSSER DEBT HOLDING)	TRIANGLE WAREHOUSE	TRIGENPART
TRT LENDING SUBSIDIARY II LLC WAREHOUSE	TSQ 2018-20TS COMPANION	TUEBOR TRS IV LLC
TUEBOR WAREHOUSE (LADDER)	TX Trust 2024-HOU	UBS 2012-C1
UBS 2017-C1	UBS 2017-C1 COMPANION	UBS 2017-C4
UBS 2017-C4 COMPANION	UBS 2017-C6	UBS 2017-C6 COMPANION
UBS 2017-C7	UBS 2017-C7 COMPANION	UBS 2018-C10
UBS 2018-C10 COMPANION	UBS 2019-C17	UBS 2019-C17 COMPANION
UBS 2019-C18	UBS 2019-C18 COMPANION	UBS AG, STAMFORD BRANCH
UBS-BARCLAYS 2012-C2	UBS-BARCLAYS 2012-C4	UBS-CITIGROUP 2011-C1
UBSCM 2018-NYCH	VDCM 2025-AZ	VERTICAL CRE CDO
Vestas Qualified Investors Private RE Fund Invest Trust No. 35	VLS 2020-LAB	VRTX 2025-HQ
VRTX 2025-HQ COMPANION	WACHOVIA 2004 C11	WACHOVIA 2004 C15
WACHOVIA 2004-C12	WACHOVIA 2005 C17	WACHOVIA 2005-C20
WACHOVIA 2005-C21	WACHOVIA 2006-C23	WACHOVIA 2006-C24
WACHOVIA 2006-C27	WACHOVIA 2006-C28	WACHOVIA 2006-C29
WACHOVIA 2006-C29 COMPANION	WACHOVIA 2007-C30	WACHOVIA 2007-C30 COMPANION
WACHOVIA 2007-C31	WACHOVIA 2007-C32	WACHOVIA 2007-C33
WACHOVIA 2007-C33 COMPANION	WACHOVIA 2007-C34	WACHOVIA 2007-WHALE 8 NON TRUST
WACHOVIA RED - TAX CREDIT	WACHOVIA STRUCTURED FINANCE	WASHINGTON SUB, LLC
WB 2024-HQ	WBHT 2019-WBM	WBHT 2025-WBM
WBRK 2025-WBRK	WEST 2025-ROSE	WEST TOWN MALL TRUST 2017-KNOX
WEST TOWN MALL TRUST 2017-KNOX COMPANION	WF LCC V LLC WAREHOUSE	WFB - PORTFOLIO
WFCM 2012-LC5	WFCM 2013-BTC	WFCM 2013-LC12

WFCM 2014-LC16	WFCM 2014-LC18	WFCM 2015-C26
WFCM 2015-C27	WFCM 2015-C28	WFCM 2015-C28 COMPANION
WFCM 2015-C29	WFCM 2015-C30	WFCM 2015-C31
WFCM 2015-C31 Companion	WFCM 2015-LC20	WFCM 2015-LC20 COMPANION
WFCM 2015-LC22	WFCM 2015-NXS1	WFCM 2015-NXS1 COMPANION
WFCM 2015-NXS2	WFCM 2015-NXS2 COMPANION	WFCM 2015-NXS3
WFCM 2015-NXS3 COMPANION	WFCM 2015-NXS4	WFCM 2015-P2
WFCM 2015-SG1	WFCM 2016-BNK1	WFCM 2016-BNK1 COMPANION
WFCM 2016-C32	WFCM 2016-C33	WFCM 2016-C34
WFCM 2016-C34 COMPANION	WFCM 2016-C35	WFCM 2016-C35 COMPANION
WFCM 2016-C36	WFCM 2016-C36 COMPANION	WFCM 2016-C37
WFCM 2016-C37 COMPANION	WFCM 2016-LC24	WFCM 2016-LC25
WFCM 2016-LC25 COMPANION	WFCM 2016-NXS5	WFCM 2016-NXS6
WFCM 2016-NXS6 COMPANION	WFCM 2017-C38	WFCM 2017-C38W
WFCM 2017-C39	WFCM 2017-C39 COMPANION	WFCM 2017-C40
WFCM 2017-C41	WFCM 2017-C42	WFCM 2017-C42 COMPANION
WFCM 2017-HSDB	WFCM 2017-RB1	WFCM 2017-RB1 COMPANION
WFCM 2017-RC1	WFCM 2017-SMP	WFCM 2018-1745
WFCM 2018-AUS	WFCM 2018-C43	WFCM 2018-C43 COMPANION
WFCM 2018-C44	WFCM 2018-C44 COMPANION	WFCM 2018-C45
WFCM 2018-C46	WFCM 2018-C46 COMPANION	WFCM 2018-C47
WFCM 2018-C47 COMPANION	WFCM 2018-C48	WFCM 2018-C48 COMPANION
WFCM 2019-C49	WFCM 2019-C50	WFCM 2019-C50 COMPANION
WFCM 2019-C51	WFCM 2019-C52	WFCM 2019-C52 COMPANION
WFCM 2019-C53	WFCM 2019-C53 COMPANION	WFCM 2019-C54
WFCM 2019-C54 COMPANION	WFCM 2019-JWDR	WFCM 2020-C55
WFCM 2020-C56	WFCM 2020-C57	WFCM 2020-C57 COMPANION
WFCM 2020-C58	WFCM 2021-C59	WFCM 2021-C59 COMPANION
WFCM 2021-C60	WFCM 2021-C61	WFCM 2021-C61 COMPANION
WFCM 2021-FCMT	WFCM 2021-SAVE	WFCM 2022-C62
WFCM 2022-C62 COMPANION	WFCM 2022-JS2	WFCM 2022-ONL
WFCM 2024-1CHI	WFCM 2024-5C1	WFCM 2024-5C1 COMPANION
WFCM 2024-5C2	WFCM 2024-5C2 COMPANION	WFCM 2024-BPRC
WFCM 2024-BPRC COMPANION	WFCM 2024-C63	WFCM 2024-C63 COMPANION
WFCM 2024-GRP	WFCM 2024-MGP (Fund XI)	WFCM 2024-MGP (Fund XII)
WFCM 2024-SVEN	WFCM 2025-1918	WFCM 2025-5C3
WFCM 2025-5C3 COMPANION	WFCM 2025-5C4	WFCM 2025-5C4 COMPANION
WFCM 2025-5C5	WFCM 2025-5C5 COMPANION	WFCM 2025-5C6
WFCM 2025-AURA	WFCM 2025-B33RP	WFCM 2025-C64
WFCM 2025-C64 COMPANION	WFCM 2025-C65	WFCM 2025-DWHP

WFCM 2025-HI	WFCM 2025-NYCH	WFCM 2025-VTT
WFCM WAREHOUSE	WFCM10C1 (PARTICIPATION)_BASIS	WFLD 2014-MONT
WFRBS 2011-C3	WFRBS 2011-C5	WFRBS 2012-C10
WFRBS 2012-C6	WFRBS 2012-C7	WFRBS 2012-C8
WFRBS 2012-C9	WFRBS 2013-C11	WFRBS 2013-C12
WFRBS 2013-C13	WFRBS 2013-C14	WFRBS 2013-C15
WFRBS 2013-C16	WFRBS 2013-C17	WFRBS 2013-C18
WFRBS 2013-UBS1	WFRBS 2014-C19	WFRBS 2014-C20
WFRBS 2014-C21	WFRBS 2014-C22	WFRBS 2014-C23
WFRBS 2014-C24	WFRBS 2014-C25	WFRBS 2014-LC14
WFRBS11C2	WFRBS11C2 (PARTICIPATION)_WEST RIVER	WFRBS11C4
WFRBS11C4 (COMPANION)_LIBERTYLIFE	WFRBS11C4	WMRK 2022-WMRK
WPT 2017-WWP	WPT 2017-WWP COMPANION	YIELD STREET STANDALONE WAREHOUSE
YIELDSTREET WAREHOUSE		

TRANSACTIONS FOR WHICH THE COMPANY IS THE SPECIAL SERVICER¹

	FREMF 2015-K1501 SS ONLY	FREMF 2015-K45 SS ONLY
FREMF 2015-K46 SS ONLY	FREMF 2018-K72 SS ONLY	FREMF 2018-K75 SS ONLY
FREMF 2018-KF53 SS ONLY	FREMF 2018-KW05 SS ONLY	FREMF 2018-KW06 SS ONLY
FREMF 2018-KX03 SS ONLY	FREMF 2020-K117 SS ONLY	FREMF 2020-KX04 SS ONLY
FREMF 2021-K129 SS ONLY	FREMF 2021-K1521 SS ONLY	FREMF 2021-KF107 SS ONLY
FREMF 2021-KF113 SS ONLY	FREMF 2021-KLU3 SS ONLY	FREMF 2022-KF136 SS ONLY
FREMF 2023-K153 SS ONLY	FREMF 2016-KS07 SS ONLY	FREMF 2017-K727 SS ONLY
FREMF 2017-KL01 SS ONLY	FREMF 2018-KC02 SS ONLY	FREMF 2018-KL02 SS ONLY
FREMF 2018-KL03 SS ONLY	FREMF 2018-KSL1 SS ONLY	

¹The transactions listed in this section of Appendix A are transactions for which the Company is the special servicer. As of and for the Period, the Company did not perform any activities related to the applicable servicing criteria for these transactions because there were no occurrences of events that would require the Company to perform such activities.

APPENDIX B

Servicing Criteria		Applicable Servicing Criteria		INAPPLICABLE Servicing Criteria	
Reference	Criteria	Performed Directly by the Company	Performed by Vendor(s) for which the Company is the Responsible Party	Performed by vendor(s) for which the Company is NOT the Responsible Party	NOT performed by the Company or by subcontractor(s) or vendor(s) retained by the Company
General Servicing Considerations					
1122(d)(1)(i)	Policies and procedures are instituted to monitor any performance or other triggers and events of default in accordance with the transaction agreements.	X			
1122(d)(1)(ii)	If any material servicing activities are outsourced to third parties, policies and procedures are instituted to monitor the third party's performance and compliance with such servicing activities.	X			
1122(d)(1)(iii)	Any requirements in the transaction agreements to maintain a back-up servicer for the pool assets are maintained.				X
1122(d)(1)(iv)	A fidelity bond and errors and omissions policy is in effect on the party participating in the servicing function throughout the reporting period in the amount of coverage required by and otherwise in accordance with the terms of the transaction agreements.	X			
1122(d)(1)(v)	Aggregation of information, as applicable, is mathematically accurate and the information conveyed accurately reflects the information.	X			
Cash Collection and Administration					
	Payments on pool assets are deposited into the appropriate custodial bank accounts and related bank clearing accounts no more than two business days	X			

1122(d)(2)(i)	following receipt, or such other number of days specified in the transaction agreements.				
1122(d)(2)(ii)	Disbursements made via wire transfer on behalf of an obligor or to an investor are made only by authorized personnel.	X			
1122(d)(2)(iii)	Advances of funds or guarantees regarding collections, cash flows or distributions, and any interest or other fees charged for such advances, are made, reviewed and approved as specified in the transaction agreements.	X			
1122(d)(2)(iv)	The related accounts for the transaction, such as cash reserve accounts or accounts established as a form of overcollateralization, are separately maintained (e.g., with respect to commingling of cash) as set forth in the transaction agreements.	X			
1122(d)(2)(v)	Each custodial account is maintained at a federally insured depository institution as set forth in the transaction agreements. For purposes of this criterion, "federally insured depository institution" with respect to a foreign financial institution means a foreign financial institution that meets the requirements of Rule 13k-1(b)(1) of the Securities Exchange Act.	X			
1122(d)(2)(vi)	Unissued checks are safeguarded so as to prevent unauthorized access.	X			
1122(d)(2)(vii)	Reconciliations are prepared on a monthly basis for all asset-backed securities related bank accounts, including custodial accounts and related bank clearing accounts. These reconciliations are (A) mathematically accurate; (B) prepared within 30 calendar days after the bank statement cutoff date, or such other number of days specified in the transaction agreements; (C) reviewed and approved by someone other than the person who prepared the reconciliation; and (D) contain explanations for reconciling items. These reconciling items are resolved within 90 calendar days of their original identification, or such other number of days specified in the transaction agreements.	X			
Investor Remittances and Reporting					
1122(d)(3)(i)(A)	Reports to investors, including those to be filed with the Commission, are maintained in accordance with the transaction agreements and applicable Commission requirements. Specifically, such reports (A) are prepared in accordance with timeframes and other terms set forth in the transaction agreements;	X			
1122(d)(3)(i)(B)	(B) provide information calculated in accordance with the terms specified in the transaction agreements.				X
1122(d)(3)(i)(C)	(C) are filed with the Commission as required by its rules and regulations.				X
1122(d)(3)(i)(D)	(D) agree with investors' or the trustee's records as to the total unpaid principal balance and number of pool assets serviced by the Servicer.				X
1122(d)(3)(ii)	Amounts due to investors are allocated and remitted in accordance with timeframes, distribution priority and other terms set forth in the transaction agreements.				X
1122(d)(3)(iii)	Disbursements made to an investor are posted within two business days to the Servicer's investor records, or such other number of days specified in the transaction agreement.				X
1122(d)(3)(iv)	Amounts remitted to investors per the investor reports agree with cancelled checks, or other form of payment, or custodial bank statements.				X
Pool Asset Administration					
1122(d)(4)(i)	Collateral or security on pool assets is maintained as required by the transaction agreement or related mortgage loan documents.	X	X		
1122(d)(4)(ii)	Pool assets and related documents are safeguarded as required by the transaction agreement.				X
1122(d)(4)(iii)	Any additions, removals or substitutions to the asset pool are made, reviewed and approved in accordance with any conditions or requirements in the transaction agreements.	X ¹			
1122(d)(4)(iv)	Payments on pool assets, including any payoffs, made in accordance with the related (pool asset) documents are posted to the Servicer's obligor records maintained no more than two business days after receipt, or such other number of days specified in the transaction agreements, and allocated to principal, interest or other items (e.g., escrow) in accordance with the related mortgage loan documents.	X			
1122(d)(4)(v)	The Servicer's records regarding the pool assets agree with the Servicer's records with respect to an obligor's unpaid principal balance.	X			
1122(d)(4)(vi)	Changes with respect to the terms or status of an obligor's pool assets (e.g., loan modifications or re-aging) are made, reviewed and approved by authorized personnel in accordance with the transaction agreements and related pool asset documents.	X	X		
1122(d)(4)(vii)	Loss mitigation or recovery actions (e.g., forbearance plans, modifications and deeds in lieu of foreclosure, foreclosures and repossessions, as applicable) are initiated, conducted and concluded in accordance with the timeframes or other requirements established by the transaction agreements.	X			
1122(d)(4)(viii)	Records documenting collection efforts are maintained during the period a mortgage loan is delinquent in accordance with the transaction agreements. Such records are maintained on at least a monthly basis, or such other period specified in the transaction agreements, and describe the entity's activities in monitoring delinquent pool assets including, for example, phone calls, letters and payment rescheduling plans in cases where delinquency is deemed temporary (e.g., illness or unemployment).	X			
1122(d)(4)(ix)	Adjustments to interest rates or rates of return for pool assets with variable rates are computed based on the related mortgage loan documents.	X			
1122(d)(4)(x)(A)	Regarding any funds held in trust for an obligor (such as escrow accounts) (A) such funds are analyzed, in accordance with the obligor's pool asset documents, on at least an annual basis, or such other period specified in the transaction agreements.	X			
1122(d)(4)(x)(B)	(B) interest on such funds is paid, or credited, to obligors in accordance with applicable pool asset documents and state laws.	X			
	(C) such funds are returned to the obligor within 30 calendar days of				

1122(d)(4)(x)(C)	full repayment of the related pool assets, or such other number of days specified in the transaction agreements.	X			
1122(d)(4)(xi)	Payments made on behalf of an obligor (such as tax or insurance payments) are made on or before the related penalty or expiration dates, as indicated on the appropriate bills or notices for such payments, provided that such support has been received by the Servicer at least 30 calendar days prior to these dates, or such other number of days specified in the transaction agreements.	X		x ²	
1122(d)(4)(xii)	Any late payment penalties in connection with any payment to be made on behalf of an obligor are paid from the Servicer's funds and not charged to the obligor, unless the late payment was due to the obligor's error or omission.	X			
1122(d)(4)(xiii)	Disbursements made on behalf of an obligor are posted within two business days to the obligor's records maintained by the Servicer, or such other number of days specified in the transaction agreements.	X			
1122(d)(4)(xiv)	Delinquencies, charge-offs and uncollectible accounts are recognized and recorded in accordance with the transaction agreements.	X			
1122(d)(4)(xv)	Any external enhancement or other support, identified in Item 1114(a)(1) through (3) or Item 1115 of Regulation AB, is maintained as set forth in the transaction agreements.				X

¹ There were no activities performed during the Period with respect to the Platform, because there were no occurrences of events that would require the Company to perform such activities.

² The Company has determined that servicing criterion 1122(d)(4)(xi) is applicable to the activities the Company performs with respect to the Platform, except for certain tax payment activities that the Company has engaged a third party to perform. The third party, CoreLogic Solutions, LLC, provided a separate Reg AB 1122(d) assertion and attestation report for their tax payment activities during the Period as they relate to servicing criterion 1122(d)(4)(xi).

Management's Assertion on Compliance with Applicable Regulation AB Servicing Criteria

- Rialto Capital Advisors, LLC (the "Asserting Party") is responsible for assessing compliance with the servicing criteria applicable to it under paragraph (d) of Item 1122 of Regulation AB, as of and for the 12-month period ended December 31, 2025 (the "Reporting Period"), as set forth in Appendix A hereto. The transactions covered by this report, include commercial mortgage-asset-backed securities transactions, as listed on Exhibit 1 hereto, for which the Asserting Party served as special servicer, and that were registered with the Securities and Exchange Commission pursuant to the Securities Act of 1933 (the "Platform");
- The Asserting Party has engaged certain vendors, which are not servicers as defined in Item 1101(j) of Regulation AB (the "Vendors"), to perform specific, limited or scripted activities, and the Asserting Party elects to take responsibility for assessing compliance with the servicing criteria or portion of the servicing criteria applicable to such Vendors' activities as set forth in Appendix A hereto;
- Except as set forth in paragraph 4 below, the Asserting Party used the criteria set forth in paragraph (d) of Item 1122 of Regulation AB to assess the compliance with the applicable servicing criteria;
- The criteria listed in the column titled "Inapplicable Servicing Criteria" on Appendix A hereto are inapplicable to the Asserting Party based on the activities it performs, directly or through its Vendors, with respect to the Platform;
- The Asserting Party has complied, in all material respects, with the applicable servicing criteria as of December 31, 2025 and for the Reporting Period with respect to the Platform taken as a whole;
- The Asserting Party has not identified and is not aware of any material instance of noncompliance by the Vendors with the applicable servicing criteria as of December 31, 2025 and for the Reporting Period with respect to the Platform taken as a whole;
- The Asserting Party has not identified any material deficiency in its policies and procedures to monitor the compliance by the Vendors with the applicable servicing criteria as of December 31, 2025 and for the Reporting Period with respect to the Platform taken as a whole; and
- Deloitte & Touche LLP, an independent registered public accounting firm, has issued an attestation report on the Asserting Party's assessment of compliance with the applicable servicing criteria for the Reporting Period.

February 13, 2026

Name: Adam Singer
Title: Managing Director

/s/ Adam Singer

APPENDIX A

Reference	SERVICING CRITERIA Criteria	Performed by Servicer	Inapplicable Servicing Criteria
General Servicing Considerations			
1122(d)(1)(k)	Policies and procedures are instituted to monitor any performance or other triggers and events of default in accordance with the transaction agreements.	X	
1122(d)(1)(i)	If any material servicing activities are outsourced to third parties, policies and procedures are instituted to monitor the third party's performance and compliance with such servicing activities.	X1	
1122(d)(1)(k)(iii)	Any requirements in the transaction agreements to maintain a back-up servicer for the pool assets are maintained.		X
1122(d)(1)(v)	A fidelity bond and errors and omissions policy is in effect on the party participating in the servicing function throughout the reporting period in the amount of coverage required by and otherwise in accordance with the terms of the transaction agreements.	X	
1122(d)(1)(v)	Aggregation of information, as applicable, is mathematically accurate and the information conveyed accurately reflects the information.	X	
Cash Collection and Administration			
1122(d)(2)(k)	Payments on pool assets are deposited into the appropriate custodial bank accounts and related bank clearing accounts no more than two business days following receipt, or such other number of days specified in the transaction agreements.	X	
1122(d)(2)(i)	Disbursements made via wire transfer on behalf of an obligor or to an investor are made only by authorized personnel.	X3	
1122(d)(2)(iii)	Advances of funds or guarantees regarding collections, cash flows or distributions, and any interest or other fees charged for such advances, are made, reviewed and approved as specified in the transaction agreements.	X3	
1122(d)(2)(v)	The related accounts for the transaction, such as cash reserve accounts or accounts established as a form of overcollateralization, are separately maintained (e.g., with respect to commingling of cash) as set forth in the transaction agreements.	X	
1122(d)(2)(v)	Each custodial account is maintained at a federally insured depository institution as set forth in the transaction agreements. For purposes of this criterion, "federally insured depository institution" with respect to a foreign financial institution means a foreign financial institution that meets the requirements of Rule 13k-1(b)(1) of the Securities Exchange Act.	X	
1122(d)(2)(vi)	Unissued checks are safeguarded so as to prevent unauthorized access.	X	
1122(d)(2)(vii)	Reconciliations are prepared on a monthly basis for all asset-backed securities related bank accounts, including custodial accounts and related bank clearing accounts. These reconciliations are (A) mathematically accurate; (B) prepared within 30 calendar days after the bank statement cutoff date, or such other number of days specified in the transaction agreements; (C) reviewed and approved by someone other than the person who prepared the reconciliation; and (D) contain explanations for reconciling items. These reconciling items are resolved within 90 calendar days of their original identification, or such other number of days specified in the transaction agreements.	X	
Investor Remittances and Reporting			
1122(d)(3)(k)	Reports to investors, including those to be filed with the Commission, are maintained in accordance with the transaction agreements and applicable Commission requirements. Specifically, such reports (A) are prepared in accordance with timeframes and other terms set forth in the transaction agreements; (B) provide information calculated in accordance with the terms specified in the transaction agreements; (C) are filed with the Commission as required by its rules and regulations; and (D) agree with investors' or the trustee's records as to the total unpaid principal balance and number of pool assets serviced by the Servicer.	X4	
1122(d)(3)(ii)	Amounts due to investors are allocated and remitted in accordance with timeframes, distribution priority and other terms set forth in the transaction agreements.		X
1122(d)(3)(iii)	Disbursements made to an investor are posted within two business days to the Servicer's investor records, or such other number of days specified in the transaction agreements.		X
1122(d)(3)(iv)	Amounts remitted to investors per the investor reports agree with cancelled checks, or other form of payment, or custodial bank statements.		X
Pool Asset Administration			
1122(d)(4)(i)	Collateral or security on Pool assets is maintained as required by the transaction agreements or related mortgage loan documents.	X	
1122(d)(4)(j)	Pool asset and related documents are safeguarded as required by the transaction agreements.	X	
1122(d)(4)(ii)	Any additions, removals or substitutions to the asset pool are made, reviewed and approved in accordance with any conditions or requirements in the transaction agreements.	X3	
1122(d)(4)(v)	Payments on pool assets, including any payoffs, made in accordance with the related pool asset documents are posted to the Servicer's obligor records maintained no more than two business days after receipt, or such other number of days specified in the transaction agreements, and allocated to principal, interest or other items (e.g., escrow) in accordance with the related pool asset documents.	X2	
1122(d)(4)(v)	The Servicer's records regarding the pool assets agree with the Servicer's records with respect to an obligor's unpaid principal balance.		X
1122(d)(4)(vi)	Changes with respect to the terms or status of an obligor's pool assets (e.g., loan modifications or re-origins) are made, reviewed and approved by authorized personnel in accordance with the transaction agreements and related pool asset documents.	X	
1122(d)(4)(vii)	Loss mitigation or recovery actions (e.g., forbearance plans, modifications and deeds in lieu of foreclosure, foreclosures and repossessions, as applicable) are initiated, conducted and concluded in accordance with the timeframes or other requirements established by the transaction agreements.	X	
1122(d)(4)(viii)	Records documenting collection efforts are maintained during the period a pool asset is delinquent in accordance with the transaction agreements. Such records are maintained on at least a monthly basis, or such other period specified in the transaction agreements, and describe the entity's activities in monitoring delinquent pool assets including, for example, phone calls, letters and payment rescheduling plans in cases where delinquency is deemed temporary (e.g., illness or unemployment).	X	
1122(d)(4)(ix)	Adjustments to interest rates or rates of return for pool assets with variable rates are computed based on the related pool asset documents.		X
1122(d)(4)(x)	Regarding any funds held in trust for an obligor (such as escrow accounts): (A) such funds are analyzed, in accordance with the obligor's pool asset documents, on at least an annual basis, or such other period specified in the transaction agreements; (B) interest on such funds is paid, or credited, to obligors in accordance with applicable pool asset documents and state laws; and (C) such funds are returned to the obligor within 30 calendar days of full repayment of the related pool assets, or such other number of days specified in the transaction agreements.		X
1122(d)(4)(xi)	Payments made on behalf of an obligor (such as tax or insurance payments) are made on or before the related penalty or expiration dates, as indicated on the appropriate bills or notices for such payments, provided that such support has been received by the Servicer at least 30 calendar days prior to these dates, or such other number of days specified in the transaction agreements.	X	
1122(d)(4)(xii)	Any late payment penalties in connection with any payment to be made on behalf of an obligor are paid from the Servicer's funds and not charged to the obligor, unless the late payment was due to the obligor's error or omission.		X
1122(d)(4)(xiii)	Disbursements made on behalf of an obligor are posted within two business days to the obligor's records maintained by the Servicer, or such other number of days specified in the transaction agreements.		X
1122(d)(4)(xiv)	Delinquencies, charge-offs and uncollectible accounts are recognized and recorded in accordance with the transaction agreements.		X

1122(d)(4)(xv)	Any external enhancement or other support, identified in Item 1114(a)(1) through (3) or Item 1115 of Regulation AB, is maintained as set forth in the transaction agreements.	X
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X1- Rialto Capital Advisors, LLC performs the activities pertaining to this criterion, except for specific, limited activities performed by its third-party property managers relating to REO Property, if any. Rialto has elected to take responsibility for assessing compliance with these servicing criteria with respect to the activities of its third-party property managers, as and if applicable.

X2- Primary responsibility for processing borrower payments rests with the Master Servicer, however, Rialto Capital Advisors, LLC may from time to time receive payments on an exception basis which are forwarded to the Master Servicer in accordance with such criteria. The criteria is marked applicable as Rialto Capital Advisors, LLC had instances or activity relating to this criteria for the calendar year of January 1, 2025 to December 31, 2025.

X3- Although Rialto Capital Advisors, LLC is responsible for performing the activities under this criteria, it is noted no such activities occurred during the calendar year of January 1, 2025 to December 31, 2025.

X4- Only items (A) and (B) of the Servicing Criteria are applicable to Rialto Capital Advisors, LLC as special servicer. Items (C) and (D) are inapplicable as the responsibility for filing reports with the Commission and agreeing totals to the Servicer records rests with the Trustee and/or Certificate Administrator, as applicable.

Exhibit 1	
Pooling and Servicing Agreements	Applicable Certification Period
JPMCC 2012-C6	January 29, 2025 to August 28, 2025
BSST 2023-1700	January 1, 2025 to November 14, 2025
JPMBB 2014-C25	January 1, 2025 to December 23, 2025
RACM 2016-UBS10	January 1, 2025 to December 31, 2025
RACM 2017-BNK3	January 1, 2025 to December 31, 2025
RAMLL 2023-DKLX	January 1, 2025 to December 31, 2025
BANK 2017-BNK4	January 1, 2025 to December 31, 2025
BANK 2017-BNK7	January 1, 2025 to December 31, 2025
BANK 2017-BNK9	January 1, 2025 to December 31, 2025
BANK 2018-BNK14	January 1, 2025 to December 31, 2025
BANK 2019-BNK18	January 1, 2025 to December 31, 2025
BANK 2019-BNK21	January 1, 2025 to December 31, 2025
BANK 2020-BNK29	January 1, 2025 to December 31, 2025
BANK 2021-BNK32	January 1, 2025 to December 31, 2025
BANK 2021-BNK33	January 1, 2025 to December 31, 2025
BANK 2021-BNK36	January 1, 2025 to December 31, 2025
BANK 2022-BN41	January 1, 2025 to December 31, 2025
BANK 2024-BNK47	January 1, 2025 - December 31, 2025
BANK5 2024-SVR10	January 1, 2025 - December 31, 2025
BBCMS 2017-C1	January 1, 2025 to December 31, 2025
BBCMS 2019-C4	January 1, 2025 to December 31, 2025
BBCMS 2020-C7	January 1, 2025 to December 31, 2025
BBCMS 2021-C10	January 1, 2025 to December 31, 2025
BBCMS 2022-C15	January 1, 2025 to December 31, 2025
BBCMS 2023-C18	January 1, 2025 to December 31, 2025
BBCMS 2023-C22	January 1, 2025 to December 31, 2025
BBCMS 2024-C26	January 1, 2025 - December 31, 2025
BBCMS 2024-C30	January 1, 2025 - December 31, 2025
BMARK 2019-B11	January 1, 2025 to December 31, 2025
BMARK 2020-B19	January 1, 2025 to December 31, 2025
BMARK 2020-B22	January 1, 2025 to December 31, 2025
BMARK 2021-B25	January 1, 2025 to December 31, 2025
BMARK 2021-B31	January 1, 2025 to December 31, 2025
BMARK 2022-B37	January 1, 2025 to December 31, 2025
BMARK 2024-V10	January 1, 2025 - December 31, 2025
BMARK 2024-V5	January 31, 2025 - December 31, 2025
BMO 2023-C2	January 1, 2025 to December 31, 2025
BMO 2023-C5	January 1, 2025 to December 31, 2025
BMO 2023-C6	January 1, 2025 to December 31, 2025
BMO 2024-C8	January 1, 2025 - December 31, 2025
CD 2016-CD1	January 1, 2025 to December 31, 2025
CD 2017-CD4	January 1, 2025 to December 31, 2025
CD 2017-CD5	January 1, 2025 to December 31, 2025
CD 2018-CD7	January 1, 2025 to December 31, 2025
CFCRE 2016-C4	January 1, 2025 to December 31, 2025
CFCRE 2016-C6	January 1, 2025 to December 31, 2025
CFCRE 2017-C8	January 1, 2025 to December 31, 2025
CGCMT 2014-GC23	January 1, 2025 to December 31, 2025
CGCMT 2015-GC27	January 1, 2025 to December 31, 2025
CGCMT 2016-C3	January 1, 2025 to December 31, 2025
CGCMT 2017-P7	January 1, 2025 to December 31, 2025
CGCMT 2019-GC41	January 1, 2025 to December 31, 2025
CGCMT 2019-GC43	January 1, 2025 to December 31, 2025
CGCMT 2022-GC48 (RCA is special servicer as to the Yorkshire & Lexington towers loan combination only)	January 1, 2025 to December 31, 2025
COMM 2012-CCRE4	January 1, 2025 to December 31, 2025
COMM 2013-LC13	January 1, 2025 to December 31, 2025
COMM 2013-LC6	January 1, 2025 to December 31, 2025
COMM 2014-CCRE14	January 1, 2025 to December 31, 2025
COMM 2014-CCRE15	January 1, 2025 to December 31, 2025
COMM 2014-CCRE18	January 1, 2025 to December 31, 2025
COMM 2014-LC15	January 1, 2025 to December 31, 2025
COMM 2015-CCRE27	January 1, 2025 to December 31, 2025
COMM 2015-DC1	January 1, 2025 to December 31, 2025
COMM 2015-LC21	January 1, 2025 to December 31, 2025
COMM 2015-PC1	January 1, 2025 to December 31, 2025
COMM 2019-GC44	January 1, 2025 to December 31, 2025
CSAH 2015-C2	January 1, 2025 to December 31, 2025
CSAH 2015-C3	January 1, 2025 to December 31, 2025
CSAH 2016-C5	January 1, 2025 to December 31, 2025
CSAH 2016-C7	January 1, 2025 to December 31, 2025
CSAH 2017-CN9	January 1, 2025 to December 31, 2025
CSAH 2018-C14	January 1, 2025 to December 31, 2025
CSAH 2019-C18	January 1, 2025 to December 31, 2025
CSMC 2020-FACT	January 1, 2025 to December 31, 2025
CSMC 2020-NET	January 1, 2025 to December 31, 2025
CSMC 2022-NWPT	January 1, 2025 to December 31, 2025
DBGS 2018-C1	January 1, 2025 to December 31, 2025
DTP 2023-SFE2	January 1, 2025 to December 31, 2025
FSRIA 2019-FL1	January 1, 2025 to December 31, 2025
FSRIA 2021-FL2	January 1, 2025 to December 31, 2025
FSRIA 2021-FL3	January 1, 2025 to December 31, 2025
FSRIA 2022-FL4	January 1, 2025 to December 31, 2025
FSRIA 2022-FL5	January 1, 2025 to December 31, 2025
FSRIA 2022-FL6	January 1, 2025 to December 31, 2025
FSRIA 2022-FL7	January 1, 2025 to December 31, 2025
FSRIA 2024-FL9	January 1, 2025 - December 31, 2025
GCC 2021-2 (Veritas portfolio)	January 1, 2025 - December 31, 2025
GSMS 2012-GC49	January 1, 2025 to December 31, 2025
GSMS 2013-GC112	January 1, 2025 to December 31, 2025
GSMS 2013-GC116	January 1, 2025 to December 31, 2025
GSMS 2015-GC28	January 1, 2025 to December 31, 2025
GSMS 2016-GS3	January 1, 2025 to December 31, 2025
GSMS 2017-GS5	January 1, 2025 to December 31, 2025
GSMS 2017-GS7	January 1, 2025 to December 31, 2025
GSMS 2018-3PCK	January 1, 2025 to December 31, 2025
GSMS 2018-GS10	January 1, 2025 to December 31, 2025
GSMS 2018-GS9	January 1, 2025 to December 31, 2025
HLPT 2019-SURF	January 1, 2025 to December 31, 2025
JPMBB 2014-C23	January 1, 2025 to December 31, 2025
JPMBB 2015-C31	January 1, 2025 to December 31, 2025

JPMCC 2012-LC9	January 1, 2025 to December 31, 2025
JPMCC 2017-JP6	January 1, 2025 to December 31, 2025
JW 2024-MRCO	January 1, 2025 - December 31, 2025
MSBAM 2012-C5	January 1, 2025 to December 31, 2025
MSBAM 2013-C13	January 1, 2025 to December 31, 2025
MSBAM 2014-C14	January 1, 2025 to December 31, 2025
MSBAM 2014-C17	January 1, 2025 to December 31, 2025
MSBAM 2014-C18	January 1, 2025 to December 31, 2025
MSBAM 2014-C19	January 1, 2025 to December 31, 2025
MSBAM 2015-C20	January 1, 2025 to December 31, 2025
MSBAM 2016-C29	January 1, 2025 to December 31, 2025
MSBAM 2016-C31	January 1, 2025 to December 31, 2025
MSC 2011-C3	January 1, 2025 - December 31, 2025
MSC 2024-NSTB	January 1, 2025 - December 31, 2025
MSCI 2015-UBS8	January 1, 2025 to December 31, 2025
MSCI 2016-UBS12	January 1, 2025 to December 31, 2025
MSCI 2019-L2	January 1, 2025 to December 31, 2025
RIAL 2022-FL8	January 1, 2025 to December 31, 2025
SCG 2023-NASH	January 1, 2025 to December 31, 2025
SGCMS 2016-C5	January 1, 2025 to December 31, 2025
SPGN 2022-TFLM	January 1, 2025 to December 31, 2025
TMSQ 2014-1500	January 1, 2025 to December 31, 2025
UBS-Barclays 2012-C4	January 1, 2025 to December 31, 2025
UBS-Barclays 2012-C4	January 1, 2025 to December 31, 2025
UBS-Barclays 2013-C6	January 1, 2025 to December 31, 2025
UBS-Citigroup 2011-C1	January 1, 2025 to December 31, 2025
UBSCM 2012-C1	January 1, 2025 to December 31, 2025
UBSCM 2017-C1	January 1, 2025 to December 31, 2025
UBSCM 2017-C4	January 1, 2025 to December 31, 2025
UBSCM 2017-C6	January 1, 2025 to December 31, 2025
UBSCM 2018-C10	January 1, 2025 to December 31, 2025
UBSCM 2018-C14	January 1, 2025 to December 31, 2025
UBSCM 2018-C9	January 1, 2025 to December 31, 2025
UBSCM 2019-C17	January 1, 2025 to December 31, 2025
UBSCM 2019-C18	January 1, 2025 to December 31, 2025
WFCM 2013-LC12	January 1, 2025 to December 31, 2025
WFCM 2014-LC18	January 1, 2025 to December 31, 2025
WFCM 2015-C27	January 1, 2025 to December 31, 2025
WFCM 2015-C30	January 1, 2025 to December 31, 2025
WFCM 2015-LC20	January 1, 2025 to December 31, 2025
WFCM 2015-LC22	January 1, 2025 to December 31, 2025
WFCM 2015-NXS1	January 1, 2025 to December 31, 2025
WFCM 2015-NXS2	January 1, 2025 to December 31, 2025
WFCM 2015-NXS4	January 1, 2025 to December 31, 2025
WFCM 2015-P2	January 1, 2025 to December 31, 2025
WFCM 2015-SG1	January 1, 2025 to December 31, 2025
WFCM 2016-BNK1	January 1, 2025 to December 31, 2025
WFCM 2016-C32	January 1, 2025 to December 31, 2025
WFCM 2016-C33	January 1, 2025 to December 31, 2025
WFCM 2016-NXSS	January 1, 2025 to December 31, 2025
WFCM 2018-C44	January 1, 2025 to December 31, 2025
WFCM 2019-C50	January 1, 2025 to December 31, 2025
WFCM 2020-C55	January 1, 2025 to December 31, 2025
WFCM 2020-C58	January 1, 2025 to December 31, 2025
WFCM 2024-SC2	January 1, 2025 to December 31, 2025
WERBS 2011-C2	January 1, 2025 to December 31, 2025
WERBS 2011-C3	January 1, 2025 to December 31, 2025
WERBS 2011-C4	January 1, 2025 to December 31, 2025
WERBS 2011-C5	January 1, 2025 to December 31, 2025
WERBS 2013-C14	January 1, 2025 to December 31, 2025
WERBS 2013-C16	January 1, 2025 to December 31, 2025
WERBS 2014-C20	January 1, 2025 to December 31, 2025
WERBS 2014-C24	January 1, 2025 to December 31, 2025
WERBS 2014-LC14	January 1, 2025 to December 31, 2025
JPMCC 2015-JP1	January 29, 2025 to December 31, 2025
JPMBB 2014-C21	January 29, 2025 to December 31, 2025
JPMDB 2016-C4	January 29, 2025 to December 31, 2025
FSRIA 2025-FL10	February 19, 2025 to December 31, 2025
WFCM 2025-C64	February 27, 2025 to December 31, 2025
BANK 2025-BNK49	March 27, 2025 to December 31, 2025
BWAY 2025-1535	April 24, 2025 to December 31, 2025
MSBAM 2013-C12	April 29, 2025 to December 31, 2025
BX 2021-VIEW	May 2, 2025 to December 31, 2025
BMO 2025-SC10	May 16, 2025 to December 31, 2025
WFCM 2025-SC4	May 29, 2025 to December 31, 2025
BMO 2025-C12	June 12, 2025 to December 31, 2025
BMARK 2025-V15	June 12, 2025 to December 31, 2025
MILE 2025-STNE	July 15, 2025 to December 31, 2025
WFCM 2025-SC6	October 8, 2025 to December 31, 2025
BMO 2025-C13	October 22, 2025 to December 31, 2025
BBCMS 2025-SC38	November 25, 2025 to December 31, 2025
CRB 2025-CRE1	December 2, 2025 to December 31, 2025
BANK 2025-BNK51	December 23, 2025 to December 31, 2025

ASSESSMENT OF COMPLIANCE WITH THE APPLICABLE SERVICING CRITERIA
CMBS Platform

The management ("Management") of the Corporate Trust Services division of Wells Fargo Bank, National Association (the "Company" or "Wells Fargo") is responsible for assessing the Company's compliance with the applicable servicing criteria set forth in Item 1122(d) of Regulation AB of the Securities and Exchange Commission. Management has determined that the servicing criteria are applicable in regard to the servicing platform for the period as follows:

Sale of Corporate Trust Services Business. On November 1, 2021, Wells Fargo and certain of its affiliates sold substantially all of its Corporate Trust Services ("CTS") division to Computershare Trust Company, N.A. ("Computershare Trust Company"), Computershare Delaware Trust Company ("CDTC"), and Computershare Limited ("Computershare Limited") and collectively with Computershare Trust Company and CDTC, "Computershare"). Virtually all CTS employees of Wells Fargo, along with most existing CTS systems, technology, and offices transferred to Computershare as part of the sale. See [Appendix B](#) for more information regarding such transition as it relates to the CMBS Platform (defined below).

Period: As of and for the twelve months ended December 31, 2025 (the "Period").

Platform: The platform consists of commercial mortgage-backed securities ("CMBS") transactions backed by pools of commercial mortgage loans and/or backed by CMBS for which the Company was appointed to perform trustee, securities administration, paying agent services, and/or related services, and for which either (a) some or all of the issued securities for such CMBS transactions were publicly offered pursuant to a registration statement delivered under the Securities Act of 1933, as amended, or (b) the issued securities for such CMBS transactions were privately offered pursuant to an exemption from registration and the Company has an obligation under the transaction agreements to deliver an assessment of compliance with the applicable servicing criteria under Item 1122(d) of Regulation AB; provided however that, (i) the platform excludes any transactions for which the offered securities were issued, sponsored and/or guaranteed by any agency or instrumentality of the U.S. government or any government-sponsored entity, and (ii) the platform excludes any transactions for which the offered securities were issued pursuant to a transaction that closed prior to January 1, 2006 and for which the Company outsources all material servicing activities (as defined by Regulation AB) to a party other than Computershare Trust Company or any affiliate thereof (the "CMBS Platform"). As a result of Wells Fargo's sale of the CTS division to Computershare, Wells Fargo has not accepted any appointments to perform trustee, securities administration, paying agent services, and/or related services on new CMBS transactions after November 1, 2021, other than a few exceptions to facilitate the transition of the CTS business to Computershare. [Appendix A](#) identifies the individual transactions defined by Management as constituting the CMBS Platform for the Period.

Applicable Servicing Criteria for the Period: Management has determined that the following servicing criteria set forth in Item 1122(d) are relevant to the servicing activities performed by the Company with respect to the CMBS Platform transactions for the Period: 1122(d)(1)(ii), 1122(d)(1)(iv), and 1122(d)(2)(iii) (the "Applicable Servicing Criteria"). Management has determined that all other servicing criteria set forth in Item 1122(d) are not applicable to the Company's servicing activities with respect to the CMBS Platform for the Period.

With respect to the CMBS Platform and the Period, Management provides the following assessment of the Company's compliance with respect to the Applicable Servicing Criteria:

1. Management is responsible for assessing the Company's compliance with the Applicable Servicing Criteria.
2. Management has assessed the Company's compliance with the Applicable Servicing Criteria. In performing this assessment, Management used the criteria set forth by the Securities and Exchange Commission in paragraph (d) of Item 1122 of Regulation AB.
3. With respect to Applicable Servicing Criterion 1122(d)(2)(iii), Management has determined that there were no activities performed during the Period with respect to the CMBS Platform, because there were no occurrences of events that would require the Company to perform such activities.
4. Based on such assessment for the Period, the Company has complied in all material respects with the Applicable Servicing Criteria for the Period.

KPMG LLP, an independent registered public accounting firm, has issued an attestation report with respect to Management's assessment of the Company's compliance with the Applicable Servicing Criteria for the Period.

WELLS FARGO BANK, National Association

By: /s/ Robin A. Phelan
Robin A. Phelan
Title: Vice President
Date: February 27, 2026

Appendix A to the Company's Assessment of Compliance with the Applicable Servicing Criteria

Wells Fargo Deal Identifier	CMBS Platform Transactions	
	Well Fargo Deal Identifier	Long Name
36502021-PF1	3650R 2021-PF1 Commercial Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2021-PF1	
AMMST2021-MF2	Arbor Multifamily Mortgage Securities Trust 2021-MF2 Multifamily Mortgage Pass-Through Certificates Series 2021-MF2	
AMMST2021-MF3	Arbor Multifamily Mortgage Securities Trust 2021-MF3 Multifamily Mortgage Pass-Through Certificates Series 2021-MF3	
BAC 2006-4	Banc of America Commercial Mortgage Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-4	
BACM2016-UBS10	Bank of America Merrill Lynch Commercial Mortgage Trust 2016-UBS10, Commercial Mortgage Pass-Through Certificates, Series 2016-UBS10	
BACM2017-BNK3	Bank of America Merrill Lynch Commercial Mortgage Trust 2017-BNK3, Commercial Mortgage Pass-Through Certificates, Series 2017-BNK3	
BACM2017-BNK6	BANK 2017-BNK6 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK6	
BACM2017-BNK9	BANK 2017-BNK9 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK9	
BACM2018-BNK12	BANK 2018-BNK12 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK12	
BACM2018-BNK15	BANK 2018-BNK15 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK15	
BACM2019-BNK18	BANK 2019-BNK18 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK18	
BACM2019-BNK21	BANK 2019-BNK21 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK21	
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BACM2021-BNK36	BANK 2021-BNK36 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK36	
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BAMLL2019-LIC	Jackson Park Trust 2019-LIC, Commercial Mortgage Pass-Through Certificates, Series 2019-LIC	
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BAMLL2020-BOC	BAMLL Commercial Mortgage Securities Trust 2020-BOC, Commercial Mortgage Pass-Through Certificates, Series 2020-BOC	
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BANK 2020-BNK28	BANK 2020-BNK28 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK28	
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BBCMS2019-C5	BBCMS Mortgage Trust 2019-C5 Commercial Mortgage Pass-Through Certificates, Series 2019-C5	
BBCMS2020-C6	BBCMS Mortgage Trust 2020-C6 Commercial Mortgage Pass-Through Certificates, Series 2020-C6	
BBCMS2020-C7	BBCMS Mortgage Trust 2020-C7 Commercial Mortgage Pass-Through Certificates, Series 2020-C7	
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BMARK2020-IG2	Benchmark 2020-IG2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-IG2
BMARK2020-IG3	Benchmark 2020-IG3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-IG3
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COMM12-CCRE5	COMM 2012-CCRE5 Commercial Mortgage Pass-Through Certificates
COMM13-CCRE7	COMM 2013-CCRE7 Commercial Mortgage Pass-Through Certificates
COMM13-LC6	COMM 2013-LC6 Commercial Mortgage Pass-Through Certificates
COMM15-CCRE23	COMM 2015-CCRE23 Commercial Mortgage Pass-Through Certificates
COMM 2004-LNB2	COMM 2004-LNB2 Commercial Mortgage Pass-Through Certificates
COMM 2005-C6	COMM 2005-C6 Commercial Mortgage Pass-Through Certificates
COMM2013-CCRE10	COMM 2013-CCRE10 Commercial Mortgage Pass-Through Certificates
COMM2013-CCRE12	COMM 2013-CCRE12 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE15	COMM 2014-CCRE15 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE16	COMM 2014-CCRE16 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE18	COMM 2014-CCRE18 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE19	COMM 2014-CCRE19 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE20	COMM 2014-CCRE20 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE21	COMM 2014-CCRE21 Commercial Mortgage Pass-Through Certificates
COMM2014-LC15	COMM 2014-LC15 Commercial Mortgage Pass-Through Certificates
COMM2014-LC17	COMM 2014-LC17 Commercial Mortgage Pass-Through Certificates
COMM2014-UBS3	COMM 2014-UBS3 Commercial Mortgage Pass-Through Certificates
COMM2014-UBS5	COMM2014-UBS5 Commercial Mortgage Pass-Through Certificates
COMM2014-UBS6	COMM 2014-UBS6 Commercial Mortgage Pass-Through Certificates
COMM2015-CCRE24	COMM 2015-CCRE24 Commercial Mortgage Pass-Through Certificates
COMM2015-CCRE26	COMM 2015-CCRE26 Commercial Mortgage Pass-Through Certificates
COMM2015-CCRE27	COMM 2015-CCRE27 Commercial Mortgage Pass-Through Certificates
COMM2015-DC1	COMM 2015-DC1 Commercial Mortgage Pass-Through Certificates
COMM2015-LC19	COMM 2015-LC19 Commercial Mortgage Pass-Through Certificates
COMM2015-LC23	COMM 2015-LC23 Commercial Mortgage Pass-Through Certificates
COMM2015-PC1	COMM 2015-PC1 Commercial Mortgage Pass-Through Certificates
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COMM2016-667M	COMM 2016-667M Mortgage Trust Commercial Mortgage Pass-Through Certificates
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JPMC2016-NINE	J.P. Morgan Chase Commercial Mortgage Securities Trust 2016-NINE Commercial Mortgage Pass-Through Certificates, Series 2016-NINE
JPMC2016-PLSD	Palisades Center Trust 2016-PLSD Commercial Mortgage Pass-Through Certificates, Series 2016-PLSD
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JPMC2017-JP5	JPACC Commercial Mortgage Securities Trust 2017-JP5, Commercial Mortgage Pass-Through Certificates, Series 2017-JP5
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JPMC2017-JP7	JPACC Commercial Mortgage Securities Trust 2017-JP7 Commercial Mortgage Pass-Through Certificates, Series 2017-JP7
JPMC2018-AON	J.P. Morgan Chase Commercial Mortgage Securities Trust 2018-AON, Commercial Mortgage Pass-Through Certificates, Series 2018-AON
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JPMC2019-COR4	JPACC Commercial Mortgage Securities Trust 2019-COR4, Commercial Mortgage Pass-Through Certificates, Series 2019-COR4
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JPMC2019-ICON UES	J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-ICON UES, Commercial Mortgage Pass-Through Certificates, Series 2019-ICON UES
JPMC2019-OSB	J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-OSB Commercial Mortgage Pass-Through Certificates, Series 2019-OSB
JPMC2020-LOOP	J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-LOOP Commercial Mortgage Pass-Through Certificates, Series 2020-LOOP
JPMC2020-NNN	J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-NNN, Commercial Mortgage Pass-Through Certificates, Series 2020-NNN
JPMC2021-1MEM	J.P. Morgan Chase Commercial Mortgage Securities Trust 2021-1MEM Commercial Mortgage Pass-Through Certificates, Series 2021-1MEM
JPMC2021-410T	J.P. Morgan Chase Commercial Mortgage Securities Trust 2021-410T Commercial Mortgage Pass-Through Certificates, Series 2021-410T
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MLMT 2005-LC1	Merrill Lynch Mortgage Investors, Inc., Commercial Mortgage Pass-Through Certificates, Series 2005-LC1
MOFT2020-B6	MOFT 2020-B6 Mortgage Trust Commercial Mortgage Pass-Through Certificates
MORGAN 2006-TOP21	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-TOP21
MRC2019-PARK	MRC2019-PARK Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-PARK
MS 2007-TOP25	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2007-TOP25
MSBAM 12-C6	Morgan Stanley Bank of America Merrill Lynch Trust 2012-C6, Commercial Mortgage Pass-Through Certificates, Series 2012-C6
MSBAM 13-C8	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C8, Commercial Mortgage Pass-Through Certificates, Series 2013-C8
MSBAM 13-C9	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C9, Commercial Mortgage Pass-Through Certificates, Series 2013-C9
MSBAM14-C19	Morgan Stanley Bank of America Merrill Lynch Trust 2014-C19, Commercial Mortgage Pass-Through Certificates, Series 2014-C19
MSBAM15-C23	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C23, Commercial Mortgage Pass-Through Certificates, Series 2015-C23
MSBAM 2013-C10	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C10, Commercial Mortgage Pass-Through Certificates, Series 2013-C10
MSBAM2013-C11	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C11, Commercial Mortgage Pass-Through Certificates, Series 2013-C11
MSBAM2013-C12	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C12, Commercial Mortgage Pass-Through Certificates, Series 2013-C12
MSBAM2013-C13	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C13, Commercial Mortgage Pass-Through Certificates, Series 2013-C13
MSBAM2014-C14	Morgan Stanley Bank of America Merrill Lynch Trust 2014-C14, Commercial Mortgage Pass-Through Certificates, Series 2014-C14
MSBAM2015-C20	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C20, Commercial Mortgage Pass-Through Certificates, Series 2015-C20
MSBAM2015-C21	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C21, Commercial Mortgage Pass-Through Certificates, Series 2015-C21
MSBAM2015-C22	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C22, Commercial Mortgage Pass-Through Certificates, Series 2015-C22
MSBAM2015-C24	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C24, Commercial Mortgage Pass-Through Certificates, Series 2015-C24
MSBAM2015-C26	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C26, Commercial Mortgage Pass-Through Certificates, Series 2015-C26
MSBAM2015-C27	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C27, Commercial Mortgage Pass-Through Certificates, Series 2015-C27
MSBAM2016-C28	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C28, Commercial Mortgage Pass-Through Certificates, Series 2016-C28
MSBAM2016-C29	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C29, Commercial Mortgage Pass-Through Certificates Series

	2016-C29
MSBAM2016-C30	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C30 Commercial Mortgage Pass-Through Certificates, Series 2016-C30
MSBAM2016-C31	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C31, Commercial Mortgage Pass-Through Certificates, Series 2016-C31
MSBAM2016-C32	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C32, Commercial Mortgage Pass-Through Certificates, Series 2016-C32
MSBAM 2017-C33	Morgan Stanley Bank of America Merrill Lynch Trust 2017-C33, Commercial Mortgage Pass-Through Certificates Series 2017-C33
MSBAM2017-C34	Morgan Stanley Bank of America Merrill Lynch Trust 2017-C34, Commercial Mortgage Pass-Through Certificates, Series 2017-C34
MSC 2006-HQ10	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-HQ10
MSC2015-MS1	Morgan Stanley Capital I Trust 2015-MS1, Commercial Mortgage Pass-Through Certificates, Series 2015-MS1
MSC2016-BNK2	Morgan Stanley Capital I Trust 2016-BNK2, Commercial Mortgage Pass Through Certificates, Series 2016-BNK2
MSC2017-BNK5	BANK 2017-BNK5 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK5
MSC2017-BNK8	BANK 2017-BNK8 Commercial Mortgage Pass Through Certificates Series 2017-BNK8
MSC2017-H1	Morgan Stanley Capital I Trust 2017-H1 Commercial Mortgage Pass-Through Certificates, Series 2017-H1
MSC2017-HR2	Morgan Stanley Capital I Trust 2017-HR2 Commercial Mortgage Pass-Through Certificates, Series 2017-HR2
MSC2018-BNK14	BANK 2018-BNK14 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK14
MSC2018-H3	Morgan Stanley Capital I Trust 2018-H3, Commercial Mortgage Pass-Through Certificates, Series 2018-H3
MSC2018-H4	Morgan Stanley Capital I Trust 2018-H4 Commercial Mortgage Pass-Through Certificates, Series 2018-H4
MSC2018-L1	Morgan Stanley Capital I Trust 2018-L1 Commercial Mortgage Pass-Through Certificates, Series 2018-L1
MSC2019-BNK17	BANK 2019-BNK17 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK17
MSC2019-BNK20	BANK 2019-BNK20 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK20
MSC2019-H6	Morgan Stanley Capital I Trust 2019-H6 Commercial Mortgage Pass-Through Certificates, Series 2019-H6
MSC2019-H7	Morgan Stanley Capital I Trust 2019-H7 Commercial Mortgage Pass-Through Certificates, Series 2019-H7
MSC2019-L2	Morgan Stanley Capital I Trust 2019-L2 Commercial Mortgage Pass-Through Certificates, Series 2019-L2
MSC2019-L3	Morgan Stanley Capital I Trust 2019-L3 Commercial Mortgage Pass-Through Certificates, Series 2019-L3
MSC2020-HR8	Morgan Stanley Capital I Trust 2020-HR8 Commercial Mortgage Pass-Through Certificates, Series 2020-HR8
MSC2020-L4	Morgan Stanley Capital I Trust 2020-L4 Commercial Mortgage Pass-Through Certificates, Series 2020-L4
MSC2021-L5	Morgan Stanley Capital I Trust 2021-L5 Commercial Mortgage Pass- Through Certificates Series 2021-L5
MSC2021-L6	Morgan Stanley Capital I Trust 2021-L6 Commercial Mortgage Pass-Through Certificates Series 2021-L6
MSC2021-L7	Morgan Stanley Capital I Trust 2021-L7 Commercial Mortgage Pass-Through Certificates Series 2021-L7
MSCC 11-C3	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2011-C3
MSCC 12-C4	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2012-C4
MSCFG2015-ALDR	MSCFG Trust 2015-ALDR Commercial Mortgage Pass-Through Certificates, Series 2015-ALDR
MSCI 2007-IQ16	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2007-IQ16
MSCI2015-UBS8	Morgan Stanley Capital I Trust 2015-UBS8, Commercial Mortgage Pass-Through Certificates, Series 2015-UBS8
MSCI2016-PSQ	Morgan Stanley Capital I Trust 2016-PSQ Commercial Mortgage Pass-Through Certificates, Series 2016-PSQ
MSCI2016-UBS11	Morgan Stanley Capital I Trust 2016-UBS11, Commercial Mortgage Pass-Through Certificates Series 2016-UBS11
MSCI2016-UBS12	Morgan Stanley Capital I Trust 2016-UBS12, Commercial Mortgage Pass-Through Certificates Series 2016-UBS12
MSCI2016-UBS9	Morgan Stanley Capital I Trust 2016-UBS9 Commercial Mortgage Pass-Through Certificates, Series 2016-UBS9
MSCI2017-237P	MSSG Trust 2017-237P, Commercial Mortgage Pass-Through Certificates, Series 2017-237P
MSCI2017-CC	BXP Trust 2017-CC Commercial Mortgage Pass-Through Certificates, Series 2017-CC
MSCI2017-GM	BXP Trust 2017-GM, Commercial Mortgage Pass-Through Certificates, Series 2017-GM
MSCI2018-MP	Morgan Stanley Capital I Trust 2018-MP Commercial Mortgage Pass-Through Certificates, Series 2018-MP
MSCI2020-CNP	Morgan Stanley Capital I Trust 2020-CNP Commercial Mortgage Pass-Through Certificates, Series 2020-CNP
NCMS2017-75B	Natixis Commercial Mortgage Securities Trust 2017-75B Commercial Mortgage Pass-Through Certificates, Series 2017-75B
NCMS2018-ALXA	Natixis Commercial Mortgage Securities Trust 2018-ALXA, Commercial Mortgage Pass-Through Certificates, Series 2018-ALXA
NCMS2018-OSS	Natixis Commercial Mortgage Securities Trust 2018-OSS Commercial Mortgage Pass Through Certificates Series 2018-OSS
NCMS2018-TSQ	20 Times Square Trust 2018-20TS, Commercial Mortgage Pass-Through Certificates, Series 2018-20TS
NCMS2019-10K	Natixis Commercial Mortgage Securities Trust 2019-10K, Commercial Mortgage Pass-Through Certificates, Series 2019-10K
NCMS2019-FAME	Natixis Commercial Mortgage Securities Trust 2019-FAME, Commercial Mortgage Pass-Through Certificates, Series 2019-FAME
NCMS2019-LVL	Natixis Commercial Mortgage Securities Trust 2019-LVL, Commercial Mortgage Pass-Through Certificates, Series 2019-LVL
NCMS2019-NEMA	Natixis Commercial Mortgage Securities Trust 2019-NEMA, Commercial Mortgage Pass-Through Certificates, Series 2019-NEMA
SGCMS2016-C5	SG Commercial Mortgage Securities LLC Commercial Mortgage Pass-Through Certificates, Series 2016-C5
SGCMS2019-787E	SG Commercial Mortgage Securities Trust 2019-787E, Commercial Mortgage Pass-Through Certificates, Series 2019-787E
SGCMS2019-PREZ	SG Commercial Mortgage Securities Trust 2019-PREZ, Commercial Mortgage Pass-Through Certificates, Series 2019-PREZ
SGCMS2020-COVE	SG Commercial Mortgage Securities Trust 2020-COVE, Commercial Mortgage Pass-Through Certificates, Series 2020-COVE
UBS2017-C1	UBS Commercial Mortgage Trust 2017-C1 Commercial Mortgage Pass-Through Certificates Series 2017-C1 Series 2017-C1
UBS2017-C2	UBS Commercial Mortgage Trust 2017-C2 Commercial Mortgage Pass-Through Certificates Series 2017-C2 Series 2017-C2
UBS2017-C3	UBS Commercial Mortgage Trust 2017-C3 Commercial Mortgage Pass-Through Certificates Series 2017-C3 Series 2017-C3
UBS2017-C4	UBS Commercial Mortgage Trust 2017-C4 Commercial Mortgage Pass-Through Certificates Series 2017-C4 Series 2017-C4
UBS2017-C5	UBS Commercial Mortgage Trust 2017-C5 Commercial Mortgage Pass-Through Certificates Series 2017-C5
UBS2017-C6	UBS Commercial Mortgage Trust 2017-C6 Commercial Mortgage Pass-Through Certificates Series 2017-C6 Series 2017-C6
UBS2017-C7	UBS Commercial Mortgage Trust 2017-C7 Commercial Mortgage Pass-Through Certificates Series 2017-C7
UBS 2018-C10	UBS Commercial Mortgage Trust 2018-C10 Commercial Mortgage Pass-Through Certificates Series 2018-C10
UBS2018-C11	UBS Commercial Mortgage Trust 2018-C11 Commercial Mortgage Pass-Through Certificates Series 2018-C11
UBS2018-C12	UBS Commercial Mortgage Trust 2018-C12 Commercial Mortgage Pass-Through Certificates Series 2018-C12
UBS2018-C13	UBS Commercial Mortgage Trust 2018-C13 Commercial Mortgage Pass-Through Certificates Series 2018-C13
UBS2018-C14	UBS Commercial Mortgage Trust 2018-C14 Commercial Mortgage Pass-Through Certificates Series 2018-C14
UBS2018-C15	UBS Commercial Mortgage Trust 2018-C15 Commercial Mortgage Pass-Through Certificates Series 2018-C15
UBS2018-C8	UBS Commercial Mortgage Trust 2018-C8 Commercial Mortgage Pass-Through Certificates Series 2018-C8
UBS2018-C9	UBS Commercial Mortgage Trust 2018-C9 Commercial Mortgage Pass-Through Certificates Series 2018-C9
UBS2019-C16	UBS Commercial Mortgage Trust 2019-C16 Commercial Mortgage Pass-Through Certificates Series 2019-C16
UBS2019-C17	UBS Commercial Mortgage Trust 2019-C17 Commercial Mortgage Pass-Through Certificates Series 2019-C17
UBS2019-C18	UBS Commercial Mortgage Trust 2019-C18, Commercial Mortgage Pass-Through Certificates Series 2019-C18
VNDO TRUST 2016-350P	VNDO Trust 2016-350P Commercial Mortgage Pass-Through Certificates, Series 2016-350P
WACHOVIA 2006-C23	Wachovia Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-C23
WACHOVIA 2006-C28	Wachovia Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-C28
WACHOVIA 2006-C29	Wachovia Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-C29
WACM 2004-C11	Wachovia Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2004-C11
WACM 2005-C21	Wachovia Commercial Mortgage Securities Inc., Commercial Mortgage Pass-Through Certificates, Series 2005-C21
WFCM2014-LC16	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-LC16
WFCM2014-LC18	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-LC18
WFCM2015-C26	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-C26
WFCM2015-C27	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-C27

WFRBS2014-C21	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C21
WFRBS2014-C22	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C22
WFRBS2014-C23	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C23
WFRBS2014-C24	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C24
WFRBS2014-C25	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C25
WFRBS2014-LC14	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-LC14

Appendix B to the Company's Assessment of Compliance with the Applicable Servicing Criteria

Wells Fargo's transfer of its roles on the CMBS Platform transactions to Computershare is ongoing. As of the beginning of the Period, Wells Fargo had not transferred to Computershare the roles associated with its trustee, securities administration, paying agent services, and/or related services, and the duties, rights, and liabilities for such roles, under the relevant agreements for any of the CMBS Platform transactions. During all or a portion of the Period, for all the CMBS Platform transactions, Wells Fargo engaged Computershare as a subservicer¹ to perform virtually all of Wells Fargo's obligations pertaining to such roles under the transaction agreements. As a result, the Company has determined that Computershare is a party participating in the servicing function with respect to the CMBS Platform and the applicable servicing criteria relevant to the servicing activities performed by Computershare for the CMBS Platform (the "Computershare Applicable Servicing Criteria"). Accordingly, Computershare is taking, and Wells Fargo is not taking, responsibility for assessing Computershare's compliance with the Computershare Applicable Servicing Criteria for the CMBS Platform, as of and for the twelve months ended December 31, 2025.

¹ In this Assessment, the term "subservicer" means agent.

ASSESSMENT OF COMPLIANCE WITH THE APPLICABLE SERVICING CRITERIA
Document Custody Platform

The management ("Management") of the Corporate Trust Services division of Wells Fargo Bank, National Association (the "Company" or "Wells Fargo") is responsible for assessing the Company's compliance with the applicable servicing criteria set forth in Item 1122(d) of Regulation AB of the Securities and Exchange Commission. Management has determined that the servicing criteria are applicable in regard to the servicing platform for the period as follows:

Sale of Corporate Trust Services Business. On November 1, 2021, Wells Fargo and certain of its affiliates sold substantially all of its Corporate Trust Services ("CTS") division to Computershare Trust Company, N.A. ("Computershare Trust Company"), Computershare Delaware Trust Company ("CDTC"), and Computershare Limited ("Computershare Limited"), and collectively with Computershare Trust Company and CDTC, "Computershare". Virtually all CTS employees of Wells Fargo, along with most existing CTS systems, technology, and offices transferred to Computershare as part of the sale. See [Appendix B](#) for more information regarding such transaction as it relates to the Document Custody Platform.

Period: As of and for the twelve months ended December 31, 2025 (the "Period").

Platform: The platform consists of residential mortgage-backed securities ("RMBS") transactions and commercial mortgage-backed securities ("CMBS") transactions, in each case for which the Company was appointed to provide document custody services, and for which either (a) some or all of the issued securities for such RMBS or CMBS transactions were publicly offered on or after January 1, 2006 pursuant to a registration statement delivered under the Securities Act of 1933, as amended, or (b) the issued securities for such RMBS or CMBS transactions were privately offered on or after January 1, 2006 pursuant to an exemption from registration and the Company has an obligation under the transaction agreements to deliver an assessment of compliance with the applicable servicing criteria under Item 1122(d) of Regulation AB; provided however that, the platform excludes any transactions for which the offered securities were issued, sponsored and/or guaranteed by any agency or instrumentality of the U.S. government or any government-sponsored entity, other than certain RMBS transactions for which the offered securities were issued, sponsored and/or guaranteed by the Federal Deposit Insurance Corporation (the "Document Custody Platform"). As a result of Wells Fargo's sale of the CTS division to Computershare, Wells Fargo has not accepted any new appointments to provide document custody services after November 1, 2021, other than a few exceptions to facilitate the transition of the CTS business to Computershare. [Appendix A](#) identifies the individual transactions defined by Management as constituting the Document Custody Platform for the Period.

Applicable Servicing Criteria for the Period: Management has determined that the following servicing criteria set forth in Item 1122(d) are relevant to the servicing activities performed by the Company with respect to the Document Custody Platform transactions for the Period: Item 1122(d)(1)(i) and 1122(d)(1)(iv) (the "Applicable Servicing Criteria"). Management has determined that all other servicing criteria set forth in Item 1122(d) are not applicable to the Company's servicing activities with respect to the Document Custody Platform for the Period.

With respect to the Document Custody Platform and the Period, Management provides the following assessment of the Company's compliance with respect to the Applicable Servicing Criteria:

- Management is responsible for assessing the Company's compliance with the Applicable Servicing Criteria.
- Management has assessed the Company's compliance with the Applicable Servicing Criteria. In performing this assessment, Management used the criteria set forth by the Securities and Exchange Commission in paragraph (d) of Item 1122 of Regulation AB.
- Based on such assessment for the Period, the Company has complied in all material respects with the Applicable Servicing Criteria for the Period.

KPMG LLP, an independent registered public accounting firm, has issued an attestation report with respect to Management's assessment of the Company's compliance with the Applicable Servicing Criteria for the Period.

WELLS FARGO BANK, National Association

By: /s/ Robin A. Phelan
Robin A. Phelan
Title: Vice President
Date: February 27, 2026

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Appendix A to the Company's Assessment of Compliance with the Applicable Servicing Criteria

Wells Fargo Deal Identifier	Long Name
365021-PF1	3650R 2021-PF1 Commercial Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2021-PF1
ABFC 2006-HE1	ABFC 2006-HE1 Trust Asset-Backed Funding Corporation Asset-Backed Certificates, Series 2006-HE1
ABFC 2006-OPT1	ABFC 2006-OPT1 Trust Asset-Backed Funding Corporation Asset-Backed Certificates, Series 2006-OPT1
ABFC 2006-OPT2	ABFC 2006-OPT2 Trust Asset-Backed Funding Corporation Asset-Backed Certificates, Series 2006-OPT2
ABFC 2006-OPT3	ABFC 2006-OPT3 Trust Asset-Backed Funding Corporation Asset-Backed Certificates, Series 2006-OPT3
ABFC 2007-WMC1	ABFC 2007-WMC1 Trust Asset Backed Funding Corporation Asset Backed Certificates, Series 2007-WMC1
ABSC2006-HE3	Asset Backed Securities Corporation Home Equity Loan Trust, Series OOMC 2006-HE3 Asset Backed Pass-Through Certificates, Series OOMC 2006-HE3
ABSC2006-HE5	Asset Backed Securities Corporation Home Equity Loan Trust, Series OOMC 2006-HE5 Asset Backed Pass-Through Certificates, Series OOMC 2006-HE5
ACE 2006-ASAP1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-ASAP1 Asset-Backed Pass-Through Certificates
ACE 2006-ASAP3	ACE Securities Corp. Home Equity Loan Trust, Series 2006-ASAP3 Asset-Backed Pass-Through Certificates
ACE 2006-ASAP4	ACE Securities Corp. Home Equity Loan Trust, Series 2006-ASAP4 Asset-Backed Pass-Through Certificates
ACE 2006-ASAP5	ACE Securities Corp. Home Equity Loan Trust, Series 2006-ASAP5 Asset-Backed Pass-Through Certificates
ACE 2006-ASAP6	ACE Securities Corp. Home Equity Loan Trust, Series 2006-ASAP6 Asset-Backed Pass-Through Certificates
ACE 2006-ASL1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-ASL1 Asset-Backed Pass-Through Certificates
ACE 2006-CW1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-CW1 Asset-Backed Pass-Through Certificates
ACE 2006-FM1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-FM1 Asset-Backed Pass-Through Certificates
ACE 2006-FM2	ACE Securities Corp. Home Equity Loan Trust, Series 2006-FM2 Asset-Backed Pass-Through Certificates
ACE 2006-HE1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-HE1 Asset-Backed Pass-Through Certificates
ACE 2006-HE3	ACE Securities Corp. Home Equity Loan Trust, Series 2006-HE3 Asset-Backed Pass-Through Certificates
ACE 2006-HE4	ACE Securities Corp. Home Equity Loan Trust, Series 2006-HE4 Asset-Backed Pass-Through Certificates
ACE 2006-OP1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-OP1 Asset-Backed Pass-Through Certificates
ACE 2006-OP2	ACE Securities Corp. Home Equity Loan Trust, Series 2006-OP2 Asset-Backed Pass-Through Certificates
ACE 2006-SD1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-SD1 Asset-Backed Pass-Through Certificates
ACE 2006-SD2	ACE Securities Corp. Home Equity Loan Trust, Series 2006-SD2 Asset-Backed Pass-Through Certificates
ACE 2006-SL1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-SL1 Asset-Backed Pass-Through Certificates
ACE 2006-SL2	ACE Securities Corp. Home Equity Loan Trust, Series 2006-SL2 Asset-Backed Pass-Through Certificates
ACE 2006-SL3	ACE Securities Corp. Home Equity Loan Trust, Series 2006-SL3 Asset-Backed Pass-Through Certificates
ACE 2006-SL4	ACE Securities Corp. Home Equity Loan Trust, Series 2006-SL4 Asset-Backed Pass-Through Certificates
ACE 2007-ASAP1	ACE Securities Corp. Home Equity Loan Trust, Series 2007-ASAP1 Asset-Backed Pass-Through Certificates
ACE 2007-ASAP2	ACE Securities Corp. Home Equity Loan Trust, Series 2007-ASAP2 Asset-Backed Pass-Through Certificates
ACE 2007-ASL1	ACE Securities Corp. Home Equity Loan Trust, Series 2007-ASL1 Asset-Backed Pass-Through Certificates
ACE 2007-D1	ACE Securities Corp. Mortgage Loan Trust, Series 2007-D1
ACE 2007-HE1	ACE Securities Corp. Home Equity Loan Trust, Series 2007-HE1 Asset-Backed Pass-Through Certificates
ACE 2007-HE2	ACE Securities Corp. Home Equity Loan Trust, Series 2007-HE2 Asset-Backed Pass-Through Certificates
ACE 2007-HE3	ACE Securities Corp. Home Equity Loan Trust, Series 2007-HE3 Asset-Backed Pass-Through Certificates
ACE 2007-HE4	ACE Securities Corp. Home Equity Loan Trust, Series 2007-HE4 Asset-Backed Pass-Through Certificates
ACE 2007-HE5	ACE Securities Corp. Home Equity Loan Trust, Series 2007-HE5 Asset-Backed Pass-Through Certificates
ACE 2007-SL2	ACE Securities Corp. Home Equity Loan Trust, Series 2007-SL2 Asset-Backed Pass-Through Certificates
ACE 2007-WM1	ACE Securities Corp. Home Equity Loan Trust, Series 2007-WM1 Asset-Backed Pass-Through Certificates
ACE 2007-WM2	ACE Securities Corp. Home Equity Loan Trust, Series 2007-WM2 Asset-Backed Pass-Through Certificates
AMMST2021-MF2	Arbor Multifamily Mortgage Securities Trust 2021-MF3 Multifamily Mortgage Pass-Through Certificates Series 2021-MF2
AMMST2021-MF3	Arbor Multifamily Mortgage Securities Trust 2021-MF3 Multifamily Mortgage Pass-Through Certificates Series 2021-MF3
ARMF 2006-2	Adjustable Rate Mortgage Trust 2006-2 Adjustable Rate Mortgage-Backed Pass-Through Certificates, Series 2006-2
ARMF 2006-3	Adjustable Rate Mortgage Trust 2006-3 Adjustable Rate Mortgage-Backed Pass-Through Certificates, Series 2006-3
BAC 2006-4	Bank of America Commercial Mortgage Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-4
BACM2016-UBS10	Bank of America Merrill Lynch Commercial Mortgage Trust 2016-UBS10, Commercial Mortgage Pass-Through Certificates, Series 2016-UBS10
BACM2017-BNK3	Bank of America Merrill Lynch Commercial Mortgage Trust 2017-BNK3, Commercial Mortgage Pass-Through Certificates, Series 2017-BNK3
BACM2017-BNK6	BANK 2017-BNK6 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK6
BACM2017-BNK9	BANK 2017-BNK9 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK9
BANK2018-BNK12	BANK 2018-BNK12 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK12
BANK2018-BNK15	BANK 2018-BNK15 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK15
BANK2019-BNK18	BANK 2019-BNK18 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK18
BANK2019-BNK21	BANK 2019-BNK21 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK21
BANK2019-BNK24	BANK 2019-BNK24 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK24
BANK2020-BNK27	BANK 2020-BNK27 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK27
BANK2020-BNK30	BANK 2020-BNK30 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK30
BANK2021-BNK33	BANK 2021-BNK33 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK33
BANK2021-BNK36	BANK 2021-BNK36 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK36
BAFC 2006-B	Bank of America Funding Corporation, Mortgage Pass-Through Certificates Series 2006-B
BAFC 2006-C	Bank of America Funding Corporation, Mortgage Pass-Through Certificates Series 2006-C
BAFC 2006-E	Bank of America Funding Corporation, Mortgage Pass-Through Certificates Series 2006-E
BAMLL2016-ISOR	BAMLL Commercial Mortgage Securities Trust 2016-ISOR, Commercial Mortgage Pass-Through Certificates, Series 2016-ISOR
BAMLL2017-AMO	Del Amo Fashion Center Trust 2017-AMO Commercial Mortgage Pass-Through Certificates, Series 2017-AMO
BAMLL2019-LIC	Jackson Park Trust 2019-LIC, Commercial Mortgage Pass-Through Certificates, Series 2019-LIC
BAMLL2020-BHP3	BAMLL Commercial Mortgage Securities Trust 2020-BHP3, Commercial Mortgage Pass-Through Certificates, Series 2020-BHP3
BAMLL2020-BOC	BAMLL Commercial Mortgage Securities Trust 2020-BOC, Commercial Mortgage Pass-Through Certificates, Series 2020-BOC
BAMLL2020-GRCE	Grice Trust 2020-GRCE Commercial Mortgage Pass-Through Certificates, Series 2020-GRCE
BANK2018-BNK11	BANK 2018-BNK11 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK11
BANK2019-BNK23	BANK 2019-BNK23 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK23
BANK2020-BNK26	BANK 2020-BNK26 Commercial Mortgage Pass Through Certificates, Series 2020-BNK26
BANK2020-BNK28	BANK 2020-BNK28 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK28
BANK2020-BNK29	BANK 2020-BNK29 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK29
BANK2021-BNK31	BANK 2021-BNK31 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK31
BANK2021-BNK32	BANK 2021-BNK32 Commercial Mortgage Pass-Through Certificates Series 2021-BNK32
BANK2021-BNK35	BANK 2021-BNK35 Commercial Mortgage Pass Through Certificates, Series 2021-BNK35
BCAP2007-AA1	BCAP Trust LLC 2007-AA1 Mortgage Pass-Through Certificates Series 2007-AA1
BBCMS2016-ETC	BBCMS 2016-ETC Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-ETC
BBCMS2017-C1	BBCMS Mortgage Trust 2017-C1 Commercial Mortgage Pass-Through Certificates, Series 2017-C1
BBCMS2018-C2	BBCMS Mortgage Trust 2018-C2 Commercial Mortgage Pass-Through Certificates, Series 2018-C2
BBCMS2018-CHRS	BBCMS 2018-CHRS Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-CHRS
BBCMS2019-B3B4	MFTI 2019-B3B4 Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-B3B4
BBCMS2019-C3	BBCMS Mortgage Trust 2019-C3 Commercial Mortgage Pass-Through Certificates, Series 2019-C3
BBCMS2019-C4	BBCMS Mortgage Trust 2019-C4 Commercial Mortgage Pass-Through Certificates, Series 2019-C4
BBCMS2019-C5	BBCMS Mortgage Trust 2019-C5 Commercial Mortgage Pass-Through Certificates, Series 2019-C5
BBCMS2020-C6	BBCMS Mortgage Trust 2020-C6 Commercial Mortgage Pass-Through Certificates, Series 2020-C6
BBCMS2020-C7	BBCMS Mortgage Trust 2020-C7 Commercial Mortgage Pass-Through Certificates, Series 2020-C7
BBCMS2020-C8	BBCMS Mortgage Trust 2020-C8 Commercial Mortgage Pass-Through Certificates, Series 2020-C8
BBCMS2021-C10	BBCMS Mortgage Trust 2021-C10 Commercial Mortgage Pass-Through Certificates, Series 2021-C10
BBCMS2021-C11	BBCMS Mortgage Trust 2021-C11 Commercial Mortgage Pass-Through Certificates, Series 2021-C11
BBCMS2021-C9	BBCMS Mortgage Trust 2021-C9 Commercial Mortgage Pass-Through Certificates Series 2021-C9
BCAP 2006-AA1	BCAP Trust LLC 2006-AA1 Mortgage Pass-Through Certificates Series 2006-AA1
BCAP 2006-AA2	BCAP Trust LLC 2006-AA2 Mortgage Pass-Through Certificates Series 2006-AA2
BCAP 2007-AA5	BCAP Trust LLC 2007-AA5 Mortgage Pass-Through Certificates Series 2007-AA5
BMARK2018-B1	Benchmark 2018-B1 Mortgage Trust Commercial Mortgage Pass-Through Certificates
BMARK2018-B2	Benchmark 2018-B2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-B2
BMARK2018-B4	Benchmark 2018-B4 Mortgage Trust Commercial Mortgage Pass-Through Certificates

COMM2018-COR3	COMM 2018-COR3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-COR3
COMM2018-HOME	COMM 2018-HOME Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-HOME
COMM2019-GC44	COMM 2019-GC44 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-GC44
COMM2020-CX	COMM 2020-CX Mortgage Trust Commercial Mortgage Pass-Through Certificates
CPTS2019-CPT	CPTS 2019-CPT Mortgage Trust Commercial Mortgage Pass-Through Certificates
CSAB 2006-1	CSAB Mortgage-Backed Pass-Through Certificates, Series 2006-1
CSAB 2006-2	CSAB Mortgage-Backed Pass-Through Certificates, Series 2006-2
CSAB 2006-3	CSAB Mortgage-Backed Pass-Through Certificates, Series 2006-3
CSAB 2006-4	CSAB Mortgage-Backed Pass-Through Certificates, Series 2006-4
CSAB 2007-1	CSAB Mortgage-Backed Pass-Through Certificates, Series 2007-1
CSAIL2015-C1	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C1
CSAIL2015-C2	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C2
CSAIL2015-C3	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C3
CSAIL2015-C4	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C4
CSAIL2016-C5	CSAIL 2016-C5 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C5
CSAIL2016-C6	CSAIL 2016-C6 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C6
CSAIL2016-C7	CSAIL 2016-C7 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C7
CSAIL2017-C8	CSAIL 2017-C8 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-C8
CSAIL2017-CX10	CSAIL 2017-CX10 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-CX10
CSAIL2017-CX9	CSAIL 2017-CX9 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-CX9
CSAIL2018-C14	CSAIL 2018-C14 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-C14
CSAIL2018-CX11	CSAIL 2018-CX11 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-CX11
CSAIL 2018-CX12	CSAIL 2018-CX12 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-CX12
CSAIL2019-C15	CSAIL 2019-C15 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C15
CSAIL2019-C16	CSAIL 2019-C16 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C16
CSAIL2019-C17	CSAIL 2019-C17 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C17
CSAIL2019-C18	CSAIL 2019-C18 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C18
CSAIL 2020-C19	CSAIL 2020-C19 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2020-C19
CSAIL 2021-C20	CSAIL 2021-C20 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2021-C20
CSFH 2006-C4	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2006-C4
CSFH 2007-C2	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2007-C2
CSMC 2006-1	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-1
CSMC 2006-2	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-2
CSMC 2006-3	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-3
CSMC 2006-4	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-4
CSMC 2006-7	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-7
CSMC 2006-8	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-8
CSMC 2006-9	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-9
CSMC 2007-1	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-1
CSMC 2007-2	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-2
CSMC 2007-3	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-3
CSMC 2007-4	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-4
CSMC 2007-5	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-5
CSMC 2007-6	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-6
CSMC 2007-7	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-7
CSMC 2016-NXSR	CSMC 2016-NXSR Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-NXSR
CSMC 2019-LVIL	CSMC 2019-LVIL Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-LVIL
CSMC 2020-WEST	CSMC 2020-WEST Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2020-WEST
DBALT 2006-AB1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AB1
DBALT 2006-AB2	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AB2
DBALT 2006-AB3	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AB3
DBALT 2006-AB4	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AB4
DBALT 2006-AR1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AR1
DBALT 2006-AR2	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AR2
DBALT 2006-AR3	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AR3
DBALT 2006-AR4	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AR4
DBALT 2006-AR5	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AR5
DBALT 2006-AR6	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AR6
DBALT 2006-OA1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-OA1
DBALT 2007-1	Deutsche ALT-A Securities Mortgage Pass-Through Certificates Series 2007-1
DBALT 2007-2	Deutsche ALT-A Securities Mortgage Loan Trust, Series 2007-2 Mortgage Pass-Through Certificate
DBALT 2007-3	Deutsche ALT-A Securities Mortgage Pass-Through Certificates Series 2007-3
DBALT 2007-AR1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-AR1
DBALT 2007-AR2	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-AR2
DBALT 2007-AR3	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-AR3
DBALT 2007-BAR1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-BAR1
DBALT 2007-OA1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-OA1
DBALT 2007-OA2	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-OA2
DBALT 2007-OA3	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-OA3
DBALT 2007-OA4	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-OA4
DBALT 2007-OA5	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-OA5
DBALT 2007-RAMP1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-RAMP1
DBIG2018-C1	DBIG2018-C1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-C1
DBIFPM2016-C1	DBIFPM 2016-C1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C1
DBIFPM2016-C3	DBIFPM 2016-C3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C3
DBIFPM2017-C6	DBIFPM 2017-C6 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-C6
DBIFPM2020-C9	DBIFPM 2020-C9 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-C9
DBIBS 1-L1-C3	DBIBS 2011-L1-C3 Commercial Mortgage Pass-Through Certificates
DCO12019-MTC	DC O12019-MTC Commercial Mortgage Pass-Through Certificates, Series 2019-MTC
DLJWBASRFC2007HE1	Asset Backed Securities Corporation Home Equity Loan Trust, Series RFC 2007-HE1 Asset Backed Pass-Through Certificates, Series RFC 2007-HE1
DMAARC2017-OT	Olympic Tower 2017-OT Mortgage Trust Commercial Mortgage Pass-Through Certificates
DMAARC2020-IMW	Manhattan West 2020-IMW Mortgage Trust Commercial Mortgage Pass-Through Certificates
EVERBANK 2013-1	EverBank Mortgage Loan Trust 2013-1 Mortgage Pass-Through Certificates, Series 2013-1
EVERBANK 2013-2	EverBank Mortgage Loan Trust 2013-2 Mortgage Pass-Through Certificates, Series 2013-2
FF 2006-FF1	First Franklin Mortgage Loan Trust 2006-FF1 Mortgage Pass-Through Certificates Series 2006-FF1
FF 2006-FFH1	First Franklin Mortgage Loan Trust 2006-FFH1 Asset-Backed Certificates, Series 2006-FFH1
FFML 2006-FF11	First Franklin Mortgage Loan Trust 2006-FF11 Mortgage Pass-Through Certificates Series 2006-FF11
FFML 2006-FF5	First Franklin Mortgage Loan Trust 2006-FF5 Mortgage Pass-Through Certificates Series 2006-FF5
FFML 2006-FF7	First Franklin Mortgage Loan Trust 2006-FF7 Mortgage Pass-Through Certificates Series 2006-FF7
FFML 2006-FF9	First Franklin Mortgage Loan Trust 2006-FF9 Mortgage Pass-Through Certificates Series 2006-FF9
FIELSTONE 2006-1	Fieldstone Mortgage Investment Trust, Series 2006-1, Mortgage-Backed Notes
FIELSTONE 2006-2	Fieldstone Mortgage Investment Trust, Series 2006-2, Mortgage-Backed Notes
FIELSTONE 2006-3	Fieldstone Mortgage Investment Trust, Series 2006-3, Mortgage-Backed Notes
FIELSTONE 2007-1	Fieldstone Mortgage Investment Trust, Series 2007-1, Mortgage-Backed Notes
FREMONT 2006-A	Fremont Home Loan Trust 2006-A, Mortgage-Backed Certificates, Series 2006-A
FREMONT 2006-B F1	Fremont Home Loan Trust 2006-B1, Mortgage-Backed Certificates, Series 2006-B1
FREMONT 2006-B F2	Fremont Home Loan Trust 2006-B2, Mortgage-Backed Certificates, Series 2006-B2
FREMONT 2006-C	Fremont Home Loan Trust 2006-C, Mortgage-Backed Certificates, Series 2006-C
FREMONT 2006-D	Fremont Home Loan Trust 2006-D, Mortgage-Backed Certificates, Series 2006-D
FREMONT 2006-E	Fremont Home Loan Trust 2006-E, Mortgage-Backed Certificates, Series 2006-E
GRNPT 2006-AR1	GreenPoint Mortgage Funding Trust 2006-AR1, Mortgage Pass-Through Certificates, Series 2006-AR1
GRNPT 2006-AR2	GreenPoint Mortgage Funding Trust 2006-AR2, Mortgage Pass-Through Certificates, Series 2006-AR2
GRNPT 2006-AR3	GreenPoint Mortgage Funding Trust 2006-AR3, Mortgage Pass-Through Certificates, Series 2006-AR3
GS 2007-GG10	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2007-GG10
GSA 2006-10	GSA Home Equity Trust 2006-10, Asset-Backed Certificates, Series 2006-10
GSA 2006-14	GSA Home Equity Trust 2006-14, Asset-Backed Certificates, Series 2006-14
GSA 2006-16	GSA Home Equity Trust 2006-16, Asset-Backed Certificates, Series 2006-16
GSA 2006-18	GSA Home Equity Trust 2006-18, Asset-Backed Certificates, Series 2006-18
GSA 2006-8	GSA Home Equity Trust 2006-8, Asset-Backed Certificates, Series 2006-8
GSA 2007-10	GSA Home Equity Trust 2007-10, Asset-Backed Certificates, Series 2007-10
GSA 2007-4	GSA Home Equity Trust 2007-4, Asset-Backed Certificates, Series 2007-4
GSA 2007-5	GSA Home Equity Trust 2007-5, Asset-Backed Certificates, Series 2007-5
GSA 2007-6	GSA Home Equity Trust 2007-6, Asset-Backed Certificates, Series 2007-6
GSA 2007-7	GSA Home Equity Trust 2007-7, Asset-Backed Certificates, Series 2007-7
GSA 2007-8	GSA Home Equity Trust 2007-8, Asset-Backed Certificates, Series 2007-8
GSA 2007-9	GSA Home Equity Trust 2007-9, Asset-Backed Certificates, Series 2007-9
GSM2015-GC28	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2015-GC28
GSM2015-GS1	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2015-GS1
GSM2006-12	GSA Home Equity Trust 2006-12 Asset-Backed Certificates, Series 2006-12
GSM2006	GSA Home Equity Trust 2006-6 Asset-Backed Certificates, Series 2006-6
GSM2013-GC14	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2013-GC14
GSM2013-GC12	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2013-GC12
GSM2014-GC20	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2014-GC20
GSM2014-GC22	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2014-GC22
GSM2014-GC24	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2014-GC24
GSM2015-590M	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2015-590M
GSM2015-GC32	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2015-GC32
GSM2016-GS2	GS Mortgage Securities Trust 2016-GS2 Commercial Mortgage Pass-Through Certificates, Series 2016-GS2
GSM2016-GS3	GS Mortgage Securities Trust 2016-GS3 Commercial Mortgage Pass-Through Certificates, Series 2016-GS3
GSM2016-GS4	GS Mortgage Securities Trust 2016-GS4 Commercial Mortgage Pass-Through Certificates, Series 2016-GS4
GSM2017-FARM	GS Mortgage Securities Corporation Trust 2017-FARM, Commercial Mortgage Pass-Through Certificates, Series 2017-FARM
GSM2017-GS5	GS Mortgage Securities Trust 2017-GS5 Commercial Mortgage Pass-Through Certificates, Series 2017-GS5
GSM2017-GS6	GS Mortgage Securities Trust 2017-GS6 Commercial Mortgage Pass-Through Certificates, Series 2017-GS6
GSM2017-GS7	GS Mortgage Securities Trust 2017-GS7 Commercial Mortgage Pass-Through Certificates Series 2017-GS7
GSM2017-GS8	GS Mortgage Securities Trust 2017-GS8 Commercial Mortgage Pass-Through Certificates Series 2017-GS8
GSM2017-WWP	Worldwide Plaza Trust 2017-WWP Commercial Mortgage Pass-Through Certificates, Series 2017-WWP
GSM2018-GS10	GS Mortgage Securities Trust 2018-GS10 Commercial Mortgage Pass-Through Certificates, Series 2018-GS10
GSM2018-GS9	GS Mortgage Securities Trust 2018-GS9 Commercial Mortgage Pass-Through Certificates, Series 2018-GS9
GSM2019-101C	CALL Mortgage Trust 2019-101C Commercial Mortgage Pass-Through Certificates, Series 2019-101C
GSM2019-1633	BWAY Trust 2019-1633 Commercial Mortgage Pass-Through Certificates, Series 2019-1633
GSM2019-GC38	GS Mortgage Securities Trust 2019-GC38 Commercial Mortgage Pass-Through Certificates, Series 2019-GC38
GSM2019-GC39	GS Mortgage Securities Trust 2019-GC39 Commercial Mortgage Pass-Through Certificates, Series 2019-GC39
GSM2019-GC40	GS Mortgage Securities Trust 2019-GC40 Commercial Mortgage Pass-Through Certificates, Series 2019-GC40
GSM2019-GC42	GS Mortgage Securities Trust 2019-GC42 Commercial Mortgage Pass-Through Certificates, Series 2019-GC42
GSM2019-GSA1	GS Mortgage Securities Trust 2019-GSA1 Commercial Mortgage Pass-Through Certificates, Series 2019-GSA1
GSM2020-ABC	MOFT Trust 2020-ABC Commercial Mortgage Pass Through Certificates, Series 2020-ABC
GSM2020-GC45	GS Mortgage Securities Trust 2020-GC45 Commercial Mortgage Pass-Through Certificates, Series 2020-GC45
GSM2020-GC47	GS Mortgage Securities Trust 2020-GC47 Commercial Mortgage Pass-Through Certificates, Series 2020-GC47
GSM2020-GSA2	GS Mortgage Securities Trust 2020-GSA2 Commercial Mortgage Pass-Through Certificates Series 2020-GSA2
GSM2021-VR	BGME Trust 2021-VR Commercial Mortgage Pass-Through Certificates, Series 2021-VR
GSM2013-GC10	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2013-GC10

WACHOVIA 2006-C23	Wachovia Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-C23
WACHOVIA 2006-C28	Wachovia Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-C28
WACHOVIA 2006-C29	Wachovia Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-C29
WFALT 2007-PA1	Wells Fargo Alternative Loan 2007-PA1 Trust Mortgage Asset-Backed Pass-Through Certificates, Series 2007-PA1
WFALT 2007-PA2	Wells Fargo Alternative Loan 2007-PA2 Trust Mortgage Asset-Backed Pass-Through Certificates, Series 2007-PA2
WFALT 2007-PA3	Wells Fargo Alternative Loan 2007-PA3 Trust Mortgage Asset-Backed Pass-Through Certificates, Series 2007-PA3
WFALT 2007-PA4	Wells Fargo Alternative Loan 2007-PA4 Trust Mortgage Asset-Backed Pass-Through Certificates, Series 2007-PA4
WFALT 2007-PA5	Wells Fargo Alternative Loan 2007-PA5 Trust Mortgage Asset-Backed Pass-Through Certificates, Series 2007-PA5
WFCM2014-LC16	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-LC16
WFCM2014-LC18	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-LC18
WFCM2015-C26	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-C26
WFCM2015-C27	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-C27
WFCM2015-C28	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-C28
WFCM2015-C29	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-C29
WFCM2015-C30	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-C30
WFCM2015-C31	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-C31
WFCM2015-LC20	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-LC20
WFCM2015-LC22	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-LC22
WFCM2015-NX81	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-NX81
WFCM2015-NX82	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-NX82
WFCM2015-NX83	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-NX83
WFCM2015-NX84	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-NX84
WFCM2015-P2	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-P2
WFCM 2015-SG1	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2015-SG1
WFCM2016-BNK1	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2016-BNK1
WFCM2016-C32	Wells Fargo Commercial Mortgage Trust 2016-C32, Commercial Mortgage Pass-Through Certificates, Series 2016-C32
WFCM2016-C33	Wells Fargo Commercial Mortgage Trust 2016-C33, Commercial Mortgage Pass-Through Certificates, Series 2016-C33
WFCM2016-C34	Wells Fargo Commercial Mortgage Trust 2016-C34, Commercial Mortgage Pass-Through Certificates, Series 2016-C34
WFCM2016-C35	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2016-C35
WFCM2016-C36	Wells Fargo Commercial Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C36
WFCM2016-C37	Wells Fargo Commercial Mortgage Trust 2016-C37, Commercial Mortgage Pass-Through Certificates, Series 2016-C37
WFCM2016-LC24	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2016-LC24
WFCM2016-LC25	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2016-LC25
WFCM2016-NX85	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2016-NX85
WFCM2016-NX86	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2016-NX86
WFCM2017-BNK4	BANK 2017-BNK4 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK4
WFCM2017-BNK7	BANK 2017-BNK7 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK7
WFCM2017-C38	Wells Fargo Commercial Mortgage Trust 2017-C38, Commercial Mortgage Pass-Through Certificates, Series 2017-C38
WFCM2017-C39	Wells Fargo Commercial Mortgage Trust 2017-C39, Commercial Mortgage Pass-Through Certificates, Series 2017-C39
WFCM2017-C40	Wells Fargo Commercial Mortgage Trust 2017-C40, Commercial Mortgage Pass-Through Certificates, Series 2017-C40
WFCM2017-C41	Wells Fargo Commercial Mortgage Trust 2017-C41, Commercial Mortgage Pass-Through Certificates, Series 2017-C41
WFCM2017-C42	Wells Fargo Commercial Mortgage Trust 2017-C42, Commercial Mortgage Pass-Through Certificates, Series 2017-C42
WFCM2017-RB1	Wells Fargo Commercial Mortgage Trust 2017-RB1, Commercial Mortgage Pass-Through Certificates, Series 2017-RB1
WFCM2017-RC1	Wells Fargo Commercial Mortgage Trust 2017-RC1, Commercial Mortgage Pass-Through Certificates, Series 2017-RC1
WFCM2018-1745	Wells Fargo Commercial Mortgage Trust 2018-1745, Commercial Mortgage Pass-Through Certificates, Series 2018-1745
WFCM2018-BNK10	BANK 2018-BNK10 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK10
WFCM2018-BNK13	BANK 2018-BNK13 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK13
WFCM2018-C43	Wells Fargo Commercial Mortgage Trust 2018-C43, Commercial Mortgage Pass-Through Certificates, Series 2018-C43
WFCM2018-C44	Wells Fargo Commercial Mortgage Trust 2018-C44, Commercial Mortgage Pass-Through Certificates, Series 2018-C44
WFCM2018-C45	Wells Fargo Commercial Mortgage Trust 2018-C45, Commercial Mortgage Pass-Through Certificates, Series 2018-C45
WFCM2018-C46	Wells Fargo Commercial Mortgage Trust 2018-C46, Commercial Mortgage Pass-Through Certificates, Series 2018-C46
WFCM2018-C47	Wells Fargo Commercial Mortgage Trust 2018-C47, Commercial Mortgage Pass-Through Certificates, Series 2018-C47
WFCM2018-C48	Wells Fargo Commercial Mortgage Trust 2018-C48, Commercial Mortgage Pass-Through Certificates, Series 2018-C48
WFCM2019-55HY	Hudson Yards 2019-55HY Mortgage Trust, Commercial Mortgage Pass-Through Certificates
WFCM2019-BNK16	BANK 2019-BNK16 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK16
WFCM2019-BNK19	BANK 2019-BNK19 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK19
WFCM2019-BNK22	BANK 2019-BNK22 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK22
WFCM2019-C49	Wells Fargo Commercial Mortgage Trust 2019-C49, Commercial Mortgage Pass-Through Certificates, Series 2019-C49
WFCM2019-C50	Wells Fargo Commercial Mortgage Trust 2019-C50, Commercial Mortgage Pass-Through Certificates, Series 2019-C50
WFCM2019-C51	Wells Fargo Commercial Mortgage Trust 2019-C51, Commercial Mortgage Pass-Through Certificates, Series 2019-C51
WFCM2019-C52	Wells Fargo Commercial Mortgage Trust 2019-C52, Commercial Mortgage Pass-Through Certificates, Series 2019-C52
WFCM2019-C53	Wells Fargo Commercial Mortgage Trust 2019-C53, Commercial Mortgage Pass-Through Certificates, Series 2019-C53
WFCM2019-C54	Wells Fargo Commercial Mortgage Trust 2019-C54, Commercial Mortgage Pass-Through Certificates, Series 2019-C54
WFCM2020-BNK25	BANK 2020-BNK25 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK25
WFCM2020-C55	Wells Fargo Commercial Mortgage Trust 2020-C55, Commercial Mortgage Pass-Through Certificates, Series 2020-C55
WFCM2020-C56	Wells Fargo Commercial Mortgage Trust 2020-C56, Commercial Mortgage Pass-Through Certificates, Series 2020-C56
WFCM2020-C57	Wells Fargo Commercial Mortgage Trust 2020-C57, Commercial Mortgage Pass-Through Certificates, Series 2020-C57
WFCM2020-C58	Wells Fargo Commercial Mortgage Trust 2020-C58, Commercial Mortgage Pass-Through Certificates, Series 2020-C58
WFCM2021-BNK34	BANK 2021-BNK34 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK34
WFCM2021-C59	Wells Fargo Commercial Mortgage Trust 2021-C59, Commercial Mortgage Pass-Through Certificates, Series 2021-C59
WFCM2021-C60	Wells Fargo Commercial Mortgage Trust 2021-C60, Commercial Mortgage Pass-Through Certificates, Series 2021-C60
WFCMT 2013-LC12	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-LC12
WHET 2006-1	Wells Fargo Home Equity Asset-Backed Securities 2006-1 Trust Home Equity Asset-Backed Certificates, Series 2006-1
WHET 2006-2	Wells Fargo Home Equity Asset-Backed Securities 2006-2 Trust Home Equity Asset-Backed Certificates, Series 2006-2
WHET 2006-3	Wells Fargo Home Equity Asset-Backed Securities 2006-3 Trust Home Equity Asset-Backed Certificates, Series 2006-3
WHET 2007-1	Wells Fargo Home Equity Asset-Backed Securities 2007-1 Trust Home Equity Asset-Backed Certificates, Series 2007-1
WHET 2007-2	Wells Fargo Home Equity Asset-Backed Securities 2007-2 Trust Home Equity Asset-Backed Certificates, Series 2007-2
WFMS 2006-AR1	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2006-AR1
WFMS 2006-AR4	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2006-AR4
WFMS 2006-AR5	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2006-AR5
WFMS 2006-7	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2006-7
WFMS 2006-AR11	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2006-AR11
WFMS 2006-AR12	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2006-AR12
WFMS 2006-AR13	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2006-AR13
WFMS 2006-AR14	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2006-AR14
WFMS 2006-AR19	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2006-AR19
WFMS 2007-13	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2007-13
WFMS 2007-7	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2007-7
WFMS 2007-AR3	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2007-AR3
WFMS 2007-AR4	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2007-AR4
WFMS 2007-AR8	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2007-AR8
WFMS 2008-AR1	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2008-AR1
WFMS 2008-AR2	Wells Fargo Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2008-AR2
WFMS2019-1	Wells Fargo Mortgage Backed Securities 2019-1 Trust Mortgage Pass-Through Certificates
WFMS2019-2	Wells Fargo Mortgage Backed Securities 2019-2 Trust Mortgage Pass-Through Certificates
WFMS2021-1	Wells Fargo Mortgage Backed Securities 2021-1 Trust Mortgage Pass-Through Certificates
WFMS2021-INV1	Wells Fargo Mortgage Backed Securities 2021-INV1 Trust Mortgage Pass-Through Certificates
WFRBS 11-C5	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2011-C5
WFRBS 12-C10	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2012-C10
WFRBS 12-C9	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2012-C9
WFRBS 13-C11	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C11
WFRBS 13-C13	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C13
WFRBS 13-C14	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C14
WFRBS2013-C15	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C15
WFRBS2013-C16	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C16
WFRBS2013-C18	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C18
WFRBS2014-C20	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C20
WFRBS2014-C21	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C21
WFRBS2014-C22	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C22
WFRBS2014-C23	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C23
WFRBS2014-C24	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C24
WFRBS2014-C25	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C25
WFRBS2014-LC14	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-LC14

Appendix B to the Company's Assessment of Compliance with the Applicable Servicing Criteria

Wells Fargo's transfer of its roles on the Document Custody Platform transactions to Computershare is ongoing. As of the beginning of the Period, Wells Fargo had not transferred to Computershare its document custody related roles, and the duties, rights, and liabilities for such roles, under the relevant agreements for any of the Document Custody Platform transactions. During all or a portion of the Period, for all the Document Custody Platform transactions, Wells Fargo engaged Computershare as a subservicer¹ to perform virtually all of Wells Fargo's obligations pertaining to such document custody related roles under the transaction agreements. As a result, the Company has determined that Computershare is a party participating in the servicing function with respect to the Document Custody Platform and the applicable servicing criteria relevant to the servicing activities performed by Computershare for the Document Custody Platform (the "Computershare Applicable Servicing Criteria"). Accordingly, Computershare is taking, and Wells Fargo is not taking, responsibility for assessing Computershare's compliance with the Computershare Applicable Servicing Criteria for the Document Custody Platform, as of and for the twelve months ended December 31, 2025.

¹ In this Assessment, the term "subservicer" means agent.

PARK BRIDGE LENDER SERVICES LLC

January 28, 2026

Management's Assertion
Report on Assessment of Compliance with Applicable Servicing Criteria

Park Bridge Lender Services LLC (the "Asserting Party" or "PBL") is responsible for assessing its compliance, as of and for the calendar year ended December 31, 2025 (the "Reporting Period"), with the servicing criteria set forth in Title 17, Section 229.1122(d) of the Code of Federal Regulations.

The transactions covered by this assertion are those transactions processed by the Asserting Party in its capacity as operating advisor or trust advisor for the asset-backed securities transactions listed in Exhibit A attached hereto (the "Platform").

The Asserting Party is responsible for assessing its compliance with the servicing criteria applicable to it. The Asserting Party used the criteria in paragraph (d) of Item 1122 of Regulation AB (17 C.F.R. 229.1122) to assess its compliance. The full outline of the Asserting Party's contractually applicable servicing criteria under various securitization pooling and servicing agreements can be found in Exhibit B attached hereto. The servicing criteria listed in the column title "Inapplicable Servicing Criteria" on Exhibit B hereto are not applicable to the Asserting Party based on the activities it performs with respect to the Platform.

Based on its assessment, the Asserting Party believes that, as of and for the periods the contractual obligations existed for the Platform in the Reporting Period listed in Exhibit A, the Asserting Party has complied in all material respects with the servicing criteria listed in the column titled "Applicable Servicing Criteria" on Exhibit B hereto (the "Applicable Servicing Criteria").

Forvis Mazars, LLP, an independent registered public accounting firm, has issued an attestation report on the assessment of compliance with the Applicable Servicing Criteria for the Reporting Period as set forth in this assertion.

Signed:
/s/ David M. Rodgers
David M. Rodgers
Principal

¹PBL's Platform consists of certain transactions for which the Company provides operating advisor services for (i) publicly issued commercial mortgage-backed securities and (ii) certain commercial mortgage-backed transactions for which an operating advisor has been engaged under the Securities Exchange Act of 1934, as amended.

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Exhibit A

Asserting Party's 2025 Servicing Platform

Securitization Transaction	Applicable Certification Period	
	Start Date	End Date
3650R 2021-PF1	January 01, 2025	to December 31, 2025
3650R 2022-PF2	January 01, 2025	to December 31, 2025
8 Spruce	January 01, 2025	to December 31, 2025
AHPT 2025-ATRM	August 15, 2025	to December 31, 2025
ALA 2025-OANA	June 13, 2025	to December 31, 2025
AOA 2021-1177	January 01, 2025	to October 15, 2025
AOA 2025-1301	August 14, 2025	to December 31, 2025
ARDN 2025-ARCP	June 17, 2025	to December 31, 2025
AREIT 2021-CRES	January 01, 2025	to April 17, 2025
ARES 2024-IND	January 01, 2025	to December 31, 2025
Aventura Mall 2018-AVM	January 01, 2025	to December 31, 2025
BACM 2016-UBS10	January 01, 2025	to December 31, 2025
BACM 2017-BNK3	January 01, 2025	to December 31, 2025
BAHA 2024-MAR	January 01, 2025	to December 31, 2025
BAMLL 2021-JACX	January 01, 2025	to December 31, 2025
BAMLL 2025-1105W	December 15, 2025	to December 31, 2025
BAMLL 2025-HYT	December 18, 2025	to December 31, 2025
Bancorp 2017-CRE2	January 01, 2025	to June 17, 2025
Bancorp 2018-CRE3	January 01, 2025	to June 17, 2025
Bancorp 2018-CRF4	January 01, 2025	to June 17, 2025
Bancorp 2019-CRE5	January 01, 2025	to December 31, 2025
BANK 2017-BNK5	January 01, 2025	to December 31, 2025
BANK 2017-BNK6	January 01, 2025	to December 31, 2025
BANK 2017-BNK8	January 01, 2025	to December 31, 2025
BANK 2017-BNK9	January 01, 2025	to December 31, 2025
BANK 2018-BNK11	January 01, 2025	to December 31, 2025
BANK 2018-BNK12	January 01, 2025	to December 31, 2025
BANK 2018-BNK14	January 01, 2025	to December 31, 2025
BANK 2018-BNK15	January 01, 2025	to December 31, 2025
BANK 2019-BNK16	January 01, 2025	to December 31, 2025
BANK 2019-BNK19	January 01, 2025	to December 31, 2025
BANK 2019-BNK20	January 01, 2025	to December 31, 2025
BANK 2019-BNK21	January 01, 2025	to December 31, 2025
BANK 2019-BNK23	January 01, 2025	to December 31, 2025
BANK 2019-BNK24	January 01, 2025	to December 31, 2025
BANK 2020-BNK26	January 01, 2025	to December 31, 2025
BANK 2020-BNK27	January 01, 2025	to December 31, 2025
BANK 2020-BNK28	January 01, 2025	to December 31, 2025
BANK 2020-BNK30	January 01, 2025	to December 31, 2025
BANK 2021-BNK31	January 01, 2025	to December 31, 2025
BANK 2021-BNK32	January 01, 2025	to December 31, 2025
BANK 2021-BNK33	January 01, 2025	to December 31, 2025
BANK 2021-BNK35	January 01, 2025	to December 31, 2025
BANK 2021-BNK37	January 01, 2025	to December 31, 2025
BANK 2022-BNK39	January 01, 2025	to December 31, 2025
BANK 2022-BNK42	January 01, 2025	to December 31, 2025
BANK 2022-BNK44	January 01, 2025	to December 31, 2025
BANK 2023-BNK45	January 01, 2025	to December 31, 2025
BANK 2023-BNK46	January 01, 2025	to December 31, 2025
BANK 2024-BNK47	January 01, 2025	to December 31, 2025
BANK 2024-BNK48	January 01, 2025	to December 31, 2025
BANKS 2023-SYR2	January 01, 2025	to December 31, 2025
BANKS 2023-SYR4	January 01, 2025	to December 31, 2025
BANKS 2024-SYR12	January 01, 2025	to December 31, 2025
BANKS 2024-SYR5	January 01, 2025	to December 31, 2025
BANKS 2024-SYR6	January 01, 2025	to December 31, 2025
BANKS 2024-SYR7	January 01, 2025	to December 31, 2025
BANKS 2025-SYR15	July 15, 2025	to December 31, 2025
BANKS 2025-SYR18	December 09, 2025	to December 31, 2025
BAY 2025-LIVN	May 06, 2025	to December 31, 2025
BBCMS 2017-C1	January 01, 2025	to December 31, 2025
BBCMS 2018-C2	January 01, 2025	to December 31, 2025
BBCMS 2019-BWAY	January 01, 2025	to December 31, 2025
BBCMS 2019-C4	January 01, 2025	to December 31, 2025
BBCMS 2020-C7	January 01, 2025	to December 31, 2025
BBCMS 2021-C11	January 01, 2025	to December 31, 2025
BBCMS 2021-C9	January 01, 2025	to December 31, 2025
BBCMS 2022-C14	January 01, 2025	to December 31, 2025
BBCMS 2022-C16	January 01, 2025	to December 31, 2025
BBCMS 2022-C18	January 01, 2025	to December 31, 2025
BBCMS 2023-SC23	January 01, 2025	to December 31, 2025
BBCMS 2023-C20	January 01, 2025	to December 31, 2025
BBCMS 2024-SC29	January 01, 2025	to December 31, 2025
BBCMS 2024-C26	January 01, 2025	to December 31, 2025
BBCMS 2025-SC36	August 07, 2025	to December 31, 2025
BBCMS 2025-C32	February 12, 2025	to December 31, 2025
BBCMS 2025-C39	December 23, 2025	to December 31, 2025
BCP 2021-330N	January 01, 2025	to December 31, 2025
BDS 2022-FL12	January 01, 2025	to August 19, 2025
BFLD 2020-EYP	January 01, 2025	to December 31, 2025
BFLD 2021-FPM	January 01, 2025	to September 15, 2025
BFLD 2024-VICT	January 01, 2025	to December 31, 2025
BFLD 2024-WRHS	January 01, 2025	to December 31, 2025
BFLD 2025-660F	October 31, 2025	to December 31, 2025
BFLD 2025-FPM	September 12, 2025	to December 31, 2025
BLOX 2021-BLOX	January 01, 2025	to December 31, 2025
BLP 2023-IND	January 01, 2025	to December 31, 2025

BLP 2024-IND2	January 01, 2025	to	December 31, 2025
BLP 2025-IND	March 17, 2025	to	December 31, 2025
BMARK 2018-B1	January 01, 2025	to	December 31, 2025
BMARK 2018-B3	January 01, 2025	to	December 31, 2025
BMARK 2018-B4	January 01, 2025	to	December 31, 2025
BMARK 2018-B6	January 01, 2025	to	December 31, 2025
BMARK 2018-B7	January 01, 2025	to	December 31, 2025
BMARK 2019-B13	January 01, 2025	to	December 31, 2025
BMARK 2019-B15	January 01, 2025	to	December 31, 2025
BMARK 2019-B9	January 01, 2025	to	December 31, 2025
BMARK 2020-B16	January 01, 2025	to	December 31, 2025
BMARK 2020-B18	January 01, 2025	to	December 31, 2025
BMARK 2020-B21	January 01, 2025	to	December 31, 2025
BMARK 2020-IG1	January 01, 2025	to	December 31, 2025
BMARK 2021-B23	January 01, 2025	to	December 31, 2025
BMARK 2021-B24	January 01, 2025	to	December 31, 2025
BMARK 2021-B26	January 01, 2025	to	December 31, 2025
BMARK 2021-B27	January 01, 2025	to	December 31, 2025
BMARK 2021-B29	January 01, 2025	to	December 31, 2025
BMARK 2021-B30	January 01, 2025	to	December 31, 2025
BMARK 2022-B33	January 01, 2025	to	December 31, 2025
BMARK 2022-B34	January 01, 2025	to	December 31, 2025
BMARK 2022-B35	January 01, 2025	to	December 31, 2025
BMARK 2022-B36	January 01, 2025	to	December 31, 2025
BMARK 2023-B38	January 01, 2025	to	December 31, 2025
BMARK 2023-B39	January 01, 2025	to	December 31, 2025
BMARK 2023-V3	January 01, 2025	to	December 31, 2025
BMARK 2023-V4	January 01, 2025	to	December 31, 2025
BMARK 2024-V11	January 01, 2025	to	December 31, 2025
BMARK 2024-V12	January 01, 2025	to	December 31, 2025
BMARK 2024-V7	January 01, 2025	to	December 31, 2025
BMARK 2024-V8	January 01, 2025	to	December 31, 2025
BMARK 2024-V9	January 01, 2025	to	December 31, 2025
BMARK 2025-B41	September 04, 2025	to	December 31, 2025
BMARK 2025-V13	February 19, 2025	to	December 31, 2025
BMARK 2025-V14	April 15, 2025	to	December 31, 2025
BMARK 2025-V16	August 13, 2025	to	December 31, 2025
BMARK 2025-V17	September 29, 2025	to	December 31, 2025
BMARK 2025-V18	October 30, 2025	to	December 31, 2025
BMARK 2025-V19	December 23, 2025	to	December 31, 2025
BMO 2022-C1	January 01, 2025	to	December 31, 2025
BMO 2022-C3	January 01, 2025	to	December 31, 2025
BMO 2023-C5	January 01, 2025	to	December 31, 2025
BMO 2023-C6	January 01, 2025	to	December 31, 2025
BMO 2024-5C3	January 01, 2025	to	December 31, 2025
BMO 2024-C10	January 01, 2025	to	December 31, 2025
BMO 2024-C9	January 01, 2025	to	December 31, 2025
BMO 2025-5C10	May 16, 2025	to	December 31, 2025
BMO 2025-5C12	October 09, 2025	to	December 31, 2025
BMO 2025-C11	February 28, 2025	to	December 31, 2025
BMP 2024-MF23	January 01, 2025	to	December 31, 2025
BOCA 2024-BOCA	January 01, 2025	to	December 15, 2025
BOCA 2025-BOCA	December 19, 2025	to	December 31, 2025
BPR 2021-NRD	January 01, 2025	to	December 31, 2025
BPR 2021-TY	January 01, 2025	to	December 31, 2025
BPR 2021-WILL	January 01, 2025	to	December 31, 2025
BPR 2022-OANA	January 01, 2025	to	June 16, 2025
BPR 2022-SSP	January 01, 2025	to	December 31, 2025
BPR 2022-STAR	January 01, 2025	to	October 15, 2025
BPR 2023-STON	January 01, 2025	to	December 31, 2025
BSREP 2021-DC	January 01, 2025	to	December 31, 2025
BSTN 2025-HUB	October 17, 2025	to	December 31, 2025
BWAY 2021-1450	January 01, 2025	to	December 31, 2025
BX 2018-GW	January 01, 2025	to	July 15, 2025
BX 2019-OC11	January 01, 2025	to	December 31, 2025
BX 2021-21M	January 01, 2025	to	December 31, 2025
BX 2021-ACNT	January 01, 2025	to	December 31, 2025
BX 2021-IRON	January 01, 2025	to	December 31, 2025
BX 2021-LGCV	January 01, 2025	to	December 31, 2025
BX 2021-PAC	January 01, 2025	to	December 31, 2025
BX 2021-SDMF	January 01, 2025	to	December 31, 2025
BX 2021-VINO	January 01, 2025	to	July 15, 2025
BX 2021-VOLT	January 01, 2025	to	December 15, 2025
BX 2021-XL2	January 01, 2025	to	December 31, 2025
BX 2022-FOX2	January 01, 2025	to	November 17, 2025
BX 2022-IND	January 01, 2025	to	December 31, 2025
BX 2022-LP2	January 01, 2025	to	December 31, 2025
BX 2022-PSB	January 01, 2025	to	July 15, 2025
BX 2023-XL3	January 01, 2025	to	December 31, 2025
BX 2024-BRBR	January 01, 2025	to	December 31, 2025
BX 2024-CNYN	January 01, 2025	to	December 31, 2025
BX 2024-FNX	January 01, 2025	to	December 31, 2025
BX 2024-GPA2	January 01, 2025	to	December 31, 2025
BX 2024-GPA3	January 01, 2025	to	December 31, 2025
BX 2024-KING	January 01, 2025	to	December 31, 2025
BX 2024-MDHS	January 01, 2025	to	December 31, 2025
BX 2024-PALM	January 01, 2025	to	December 31, 2025
BX 2024-SLCT	January 01, 2025	to	December 31, 2025
BX 2024-VLTS	January 01, 2025	to	December 31, 2025
BX 2024-XL4	January 01, 2025	to	December 31, 2025
BX 2024-XL5	January 01, 2025	to	December 31, 2025
BX 2025-BH03	February 11, 2025	to	December 31, 2025
BX 2025-COPT	August 21, 2025	to	December 31, 2025
BX 2025-DIME	February 14, 2025	to	December 31, 2025
BX 2025-ROIC	February 27, 2025	to	December 31, 2025
BX 2025-VLT6	March 06, 2025	to	December 31, 2025
BX 2025-VOLT	December 15, 2025	to	December 31, 2025
BXSC 2022-WSS	January 01, 2025	to	December 31, 2025
CAMB 2021-CX2	January 01, 2025	to	December 31, 2025
Carbon 2019-FL2	January 01, 2025	to	December 31, 2025
CCUBS 2017-C1	January 01, 2025	to	December 31, 2025
CD 2016-CD1	January 01, 2025	to	December 31, 2025
CD 2016-CD2	January 01, 2025	to	December 31, 2025
CD 2017-CD3	January 01, 2025	to	December 31, 2025
CD 2017-CD4	January 01, 2025	to	December 31, 2025
CD 2017-CD5	January 01, 2025	to	December 31, 2025
CD 2017-CD6	January 01, 2025	to	December 31, 2025
CD 2018-CD7	January 01, 2025	to	December 31, 2025
CD 2019-CD8	January 01, 2025	to	December 31, 2025
CENT 2023-CITY	January 01, 2025	to	July 15, 2025
CENT 2025-CITY	July 22, 2025	to	December 31, 2025
CF 2019-CF1	January 01, 2025	to	December 31, 2025
CF 2019-CF2	January 01, 2025	to	December 31, 2025
CF 2019-CF3	January 01, 2025	to	December 31, 2025
CF 2020-P1	January 01, 2025	to	December 31, 2025
CFCRE 2016-C3	January 01, 2025	to	December 31, 2025
CFCRE 2016-C4	January 01, 2025	to	December 31, 2025
CFCRE 2016-C6	January 01, 2025	to	December 31, 2025
CFCRE 2016-C7	January 01, 2025	to	December 31, 2025
CFCRE 2017-C8	January 01, 2025	to	December 31, 2025
CGCMT 2014-GC21	January 01, 2025	to	December 31, 2025
CGCMT 2014-GC25	January 01, 2025	to	December 31, 2025
CGCMT 2015-GC27	January 01, 2025	to	December 31, 2025

CGCMT 2015-GC35	January 01, 2025	to	December 31, 2025
CGCMT 2015-P1	January 01, 2025	to	December 31, 2025
CGCMT 2016-C1	January 01, 2025	to	December 31, 2025
CGCMT 2016-GC37	January 01, 2025	to	December 31, 2025
CGCMT 2016-P3	January 01, 2025	to	December 31, 2025
CGCMT 2016-P4	January 01, 2025	to	December 31, 2025
CGCMT 2016-P5	January 01, 2025	to	December 31, 2025
CGCMT 2016-P6	January 01, 2025	to	December 31, 2025
CGCMT 2017-C4	January 01, 2025	to	December 31, 2025
CGCMT 2017-P7	January 01, 2025	to	December 31, 2025
CGCMT 2018-B2	January 01, 2025	to	December 31, 2025
CGCMT 2018-C6	January 01, 2025	to	December 31, 2025
CGCMT 2019-GC41	January 01, 2025	to	December 31, 2025
CGCMT 2019-GC43	January 01, 2025	to	December 31, 2025
CGCMT 2020-GC46	January 01, 2025	to	December 31, 2025
CGCMT 2022-GC48	January 01, 2025	to	December 31, 2025
CGCMT 2023-SMRT	January 01, 2025	to	December 31, 2025
CHI 2025-SFT	March 27, 2025	to	December 31, 2025
COAST 2023-2HTL	January 01, 2025	to	December 31, 2025
COMM 2012-CCRE4	January 01, 2025	to	December 31, 2025
COMM 2012-CCRE5	January 01, 2025	to	December 31, 2025
COMM 2012-LC4	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE10	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE11	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE12	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE6	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE7	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE8	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE9	January 01, 2025	to	December 31, 2025
COMM 2013-LC13	January 01, 2025	to	December 31, 2025
COMM 2013-LC6	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE14	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE15	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE16	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE17	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE18	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE19	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE20	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE21	January 01, 2025	to	December 31, 2025
COMM 2014-LC15	January 01, 2025	to	December 31, 2025
COMM 2014-LC17	January 01, 2025	to	December 31, 2025
COMM 2014-UBS2	January 01, 2025	to	December 31, 2025
COMM 2014-UBS3	January 01, 2025	to	December 31, 2025
COMM 2014-UBS4	January 01, 2025	to	December 31, 2025
COMM 2014-UBS5	January 01, 2025	to	December 31, 2025
COMM 2015-CCRE22	January 01, 2025	to	December 31, 2025
COMM 2015-CCRE24	January 01, 2025	to	December 31, 2025
COMM 2015-CCRE26	January 01, 2025	to	December 31, 2025
COMM 2015-CCRE27	January 01, 2025	to	December 31, 2025
COMM 2015-DC1	January 01, 2025	to	December 31, 2025
COMM 2015-LC19	January 01, 2025	to	December 31, 2025
COMM 2015-LC21	January 01, 2025	to	December 31, 2025
COMM 2015-LC23	January 01, 2025	to	December 31, 2025
COMM 2015-PC1	January 01, 2025	to	December 31, 2025
COMM 2016-667M	January 01, 2025	to	December 31, 2025
COMM 2016-CCRE28	January 01, 2025	to	December 31, 2025
COMM 2016-COR1	January 01, 2025	to	December 31, 2025
COMM 2016-DC2	January 01, 2025	to	December 31, 2025
COMM 2017-COR2	January 01, 2025	to	December 31, 2025
COMM 2018-SBP	January 01, 2025	to	December 15, 2025
COMM 2018-COR3	January 01, 2025	to	December 31, 2025
COMM 2018-HOME	January 01, 2025	to	December 31, 2025
COMM 2019-GC44	January 01, 2025	to	December 31, 2025
COMM 2020-CX	January 01, 2025	to	December 31, 2025
COMM 2021-2400	January 01, 2025	to	December 31, 2025
COMM 2022-HC	January 01, 2025	to	December 31, 2025
COMM 2024-277P	January 01, 2025	to	December 31, 2025
COMM 2024-CBM	January 01, 2025	to	December 31, 2025
COMM 2024-WCL1	January 01, 2025	to	December 31, 2025
COMM 2025-180W	August 05, 2025	to	December 31, 2025
COMM 2025-SBX	August 01, 2025	to	December 31, 2025
CSAIL 2015-C1	January 01, 2025	to	December 31, 2025
CSAIL 2015-C2	January 01, 2025	to	December 31, 2025
CSAIL 2016-C6	January 01, 2025	to	December 31, 2025
CSAIL 2016-C7	January 01, 2025	to	December 31, 2025
CSAIL 2017-C8	January 01, 2025	to	December 31, 2025
CSAIL 2017-CX10	January 01, 2025	to	December 31, 2025
CSAIL 2018-CX11	January 01, 2025	to	December 31, 2025
CSAIL 2018-CX12	January 01, 2025	to	December 31, 2025
CSAIL 2019-C15	January 01, 2025	to	December 31, 2025
CSAIL 2019-C17	January 01, 2025	to	December 31, 2025
CSAIL 2020-C19	January 01, 2025	to	December 31, 2025
CSAIL 2021-C20	January 01, 2025	to	December 31, 2025
CSMC 2016-NXSR	January 01, 2025	to	December 31, 2025
CSMC 2017-CALI	January 01, 2025	to	December 31, 2025
CSMC 2017-CHOP	January 01, 2025	to	December 31, 2025
CSMC 2017-PFHP	January 01, 2025	to	December 31, 2025
CSMC 2019-UVIL	January 01, 2025	to	December 31, 2025
CSMC 2020-FACT	January 01, 2025	to	December 31, 2025
CSMC 2021-B33	January 01, 2025	to	December 31, 2025
CSMC 2021-BHAR	January 01, 2025	to	December 31, 2025
CSTL 2024-GATE	January 01, 2025	to	December 31, 2025
CSTL 2025-GATE2	November 12, 2025	to	December 31, 2025
DAFC 2017-AMO	January 01, 2025	to	December 31, 2025
DATA 2023-CNTR	January 01, 2025	to	December 31, 2025
DBC 2025-DBC	October 29, 2025	to	December 31, 2025
DBGS 2018-BIOD	January 01, 2025	to	April 15, 2025
DBGS 2018-C1	January 01, 2025	to	December 31, 2025
DBGS 2024-ALTA	January 01, 2025	to	December 31, 2025
DBGS 2024-SBL	January 01, 2025	to	December 31, 2025
DBJPM 2016-C1	January 01, 2025	to	December 31, 2025
DBJPM 2016-C3	January 01, 2025	to	December 31, 2025
DBJPM 2020-C9	January 01, 2025	to	December 31, 2025
DBWF 2024-LCRS	January 01, 2025	to	December 31, 2025
DC 2023-DC	January 01, 2025	to	December 31, 2025
DC 2024-HUTN	January 01, 2025	to	December 31, 2025
DK 2024-SPBX	January 01, 2025	to	December 31, 2025
DOLP 2021-NYC	January 01, 2025	to	December 31, 2025
DURST 2025-151	August 19, 2025	to	December 31, 2025
ELM 2024-ELM	January 01, 2025	to	December 31, 2025
ELP 2021-ELP	January 01, 2025	to	December 31, 2025
ELP 2025-ELP	November 20, 2025	to	December 31, 2025
EQUS 2021-EQAZ	January 01, 2025	to	December 31, 2025
ESA 2021-FESH	January 01, 2025	to	October 15, 2025
FIVE 2023-V1	January 01, 2025	to	December 31, 2025
FMBT 2024-FBLU	January 01, 2025	to	December 31, 2025
FREM SCR 2016-MDN1	January 01, 2025	to	December 31, 2025
FREM SCR 2016-MDN2	January 01, 2025	to	December 31, 2025
FREM SCR 2017-MDN3	January 01, 2025	to	December 31, 2025
GFH 2025-IND	June 28, 2025	to	December 31, 2025
GPMT 2021-FL3	January 01, 2025	to	December 31, 2025
Grace Trust 2020-GRCE	January 01, 2025	to	December 31, 2025
GSAT 2025-BMF	July 15, 2025	to	December 31, 2025

GSJP 2025-BEDS	December 18, 2025	to	December 31, 2025
GSMS 2013-GCJ12	January 01, 2025	to	December 31, 2025
GSMS 2013-GCJ16	January 01, 2025	to	December 31, 2025
GSMS 2015-GC32	January 01, 2025	to	December 31, 2025
GSMS 2016-G54	January 01, 2025	to	December 31, 2025
GSMS 2017-G57	January 01, 2025	to	December 31, 2025
GSMS 2018-3PCK	January 01, 2025	to	December 31, 2025
GSMS 2018-GS10	January 01, 2025	to	December 31, 2025
GSMS 2019-GC39	January 01, 2025	to	December 31, 2025
GSMS 2019-GC42	January 01, 2025	to	December 31, 2025
GSMS 2019-GSA1	January 01, 2025	to	December 31, 2025
GSMS 2020-GC47	January 01, 2025	to	December 31, 2025
GSMS 2021-DM	January 01, 2025	to	October 15, 2025
GSMS 2021-IP	January 01, 2025	to	October 15, 2025
GSMS 2023-SHIP	January 01, 2025	to	December 31, 2025
GSMS 2024-FAIR	January 01, 2025	to	December 31, 2025
HGMT 2025-HGLR	February 13, 2025	to	December 31, 2025
HHT 2025-MAUI	March 21, 2025	to	December 31, 2025
HIG 2023-FL1	January 01, 2025	to	November 20, 2025
HILT 2024-ORL	January 01, 2025	to	December 31, 2025
HIT 2022-HI32	January 01, 2025	to	December 31, 2025
HONO 2021-LULU	January 01, 2025	to	December 31, 2025
ICNQ 2024-MF	January 01, 2025	to	December 31, 2025
ILPT 2019-SURF	January 01, 2025	to	December 31, 2025
ILPT 2022-LPF2	January 01, 2025	to	July 15, 2025
ILPT 2022-LPFX	January 01, 2025	to	December 31, 2025
ILPT 2025-LPF2	June 27, 2025	to	December 31, 2025
JPACC 2013-C10	January 01, 2025	to	December 31, 2025
JPACC 2018-AON	January 01, 2025	to	December 31, 2025
JPACC 2018-ASHR	January 01, 2025	to	December 31, 2025
JPACC 2018-MINN	January 01, 2025	to	December 31, 2025
JPACC 2018-PHH	January 01, 2025	to	December 31, 2025
JPACC 2018-WPT	January 01, 2025	to	December 31, 2025
JPACC 2018-WPT	January 01, 2025	to	December 31, 2025
JPACC 2019-ICON	January 01, 2025	to	December 31, 2025
JPACC 2019-OSB	January 01, 2025	to	December 31, 2025
JPACC 2020-609M	January 01, 2025	to	August 15, 2025
JPACC 2020-LOOP	January 01, 2025	to	December 31, 2025
JPACC 2021-IMEM	January 01, 2025	to	December 31, 2025
JPACC 2021-2NU	January 01, 2025	to	December 31, 2025
JPACC 2021-410T	January 01, 2025	to	December 31, 2025
JPACC 2022-NLP	January 01, 2025	to	December 31, 2025
JPACC 2025-BHRS	March 17, 2025	to	December 31, 2025
JPADB 2017-C5	January 01, 2025	to	December 31, 2025
KIND 2024-1	January 01, 2025	to	December 31, 2025
KNDR 2021-KIND	January 01, 2025	to	December 31, 2025
KRE 2025-AIP4	March 18, 2025	to	December 31, 2025
LAQ 2023-LAQ	January 01, 2025	to	December 31, 2025
LCCM 2017-LC26	January 01, 2025	to	December 31, 2025
LEX 2024-BBG	January 01, 2025	to	December 31, 2025
LIFE 2021-BMR	January 01, 2025	to	December 31, 2025
LIFE 2022-BMR2	January 01, 2025	to	December 31, 2025
LUX 2023-LION	January 01, 2025	to	December 31, 2025
LV 2024-SHOW	January 01, 2025	to	December 31, 2025
Manhattan West 2020-1MW	January 01, 2025	to	December 31, 2025
MCR 2024-HTL	January 01, 2025	to	December 31, 2025
MED 2024-MOB	January 01, 2025	to	December 31, 2025
MHC 2021-MHC	January 01, 2025	to	December 31, 2025
MHC 2021-MHC2	January 01, 2025	to	December 15, 2025
MHP 2021-STOR	January 01, 2025	to	December 31, 2025
MHP 2022-MHL	January 01, 2025	to	December 31, 2025
MHP 2025-MHHL2	August 28, 2025	to	December 31, 2025
MILE 2025-STNE	July 15, 2025	to	December 31, 2025
MIRA 2023-MILE	January 01, 2025	to	December 31, 2025
MRCO 2019-PARK	January 01, 2025	to	December 31, 2025
MSBAM 2012-C5	January 01, 2025	to	December 31, 2025
MSBAM 2013-C10	January 01, 2025	to	December 31, 2025
MSBAM 2013-C13	January 01, 2025	to	December 31, 2025
MSBAM 2014-C14	January 01, 2025	to	December 31, 2025
MSBAM 2014-C18	January 01, 2025	to	December 31, 2025
MSBAM 2014-C19	January 01, 2025	to	December 31, 2025
MSBAM 2015-C20	January 01, 2025	to	December 31, 2025
MSBAM 2015-C22	January 01, 2025	to	December 31, 2025
MSBAM 2015-C24	January 01, 2025	to	December 31, 2025
MSBAM 2015-C26	January 01, 2025	to	December 31, 2025
MSBAM 2016-C28	January 01, 2025	to	December 31, 2025
MSBAM 2016-C29	January 01, 2025	to	December 31, 2025
MSBAM 2016-C30	January 01, 2025	to	December 31, 2025
MSBAM 2016-C31	January 01, 2025	to	December 31, 2025
MSBAM 2016-C32	January 01, 2025	to	December 31, 2025
MSBAM 2017-C33	January 01, 2025	to	December 31, 2025
MSBAM 2017-C34	January 01, 2025	to	December 31, 2025
MSBAM 2025-3C2	November 13, 2025	to	December 31, 2025
MSBAM 2025-C35	August 14, 2025	to	December 31, 2025
MSC 2015-MS1	January 01, 2025	to	December 31, 2025
MSC 2015-UBS8	January 01, 2025	to	December 31, 2025
MSC 2016-BNK2	January 01, 2025	to	December 31, 2025
MSC 2016-UBS11	January 01, 2025	to	December 31, 2025
MSC 2016-UBS12	January 01, 2025	to	December 31, 2025
MSC 2017-ASHF	January 01, 2025	to	December 31, 2025
MSC 2017-HR2	January 01, 2025	to	December 31, 2025
MSC 2018-H3	January 01, 2025	to	December 31, 2025
MSC 2018-H4	January 01, 2025	to	December 31, 2025
MSC 2019-H6	January 01, 2025	to	December 31, 2025
MSC 2019-L3	January 01, 2025	to	December 31, 2025
MSC 2019-PLND	January 01, 2025	to	December 31, 2025
MSC 2020-HR8	January 01, 2025	to	December 31, 2025
MSC 2021-ILP	January 01, 2025	to	July 15, 2025
MSC 2021-L6	January 01, 2025	to	December 31, 2025
MSC 2022-L8	January 01, 2025	to	December 31, 2025
MSC 2024-BPR2	January 01, 2025	to	December 31, 2025
MSCI 2016-UBS9	January 01, 2025	to	December 31, 2025
MSSG 2017-237P	January 01, 2025	to	December 31, 2025
MTK 2021-GRNY	January 01, 2025	to	April 15, 2025
MTN 2022-LPFL	January 01, 2025	to	December 31, 2025
NCMF 2022-MFP	January 01, 2025	to	June 16, 2025
NCMF 2025-MFS	June 11, 2025	to	December 31, 2025
NCMS 2019-AMZTB	January 01, 2025	to	December 31, 2025
NRTH 2025-PARK	October 15, 2025	to	December 31, 2025
NXPT 2024-STOR	January 01, 2025	to	December 31, 2025
NYC 2024-3ELV	January 01, 2025	to	December 31, 2025
NYO 2021-1290	January 01, 2025	to	December 31, 2025
OBPT 2019-ORP	January 01, 2025	to	December 31, 2025
OMPT 2017-1MKT	January 01, 2025	to	December 31, 2025
ONE 2021-PARK	January 01, 2025	to	December 31, 2025
ONNI 2024-APT	January 01, 2025	to	December 31, 2025
ONYP 2020-1NYP	January 01, 2025	to	December 31, 2025
OPC 2021-PORT	January 01, 2025	to	April 15, 2025
ORL 2024-GLKS	January 01, 2025	to	December 31, 2025
PPF 2023-10	January 01, 2025	to	August 18, 2025
PRK 2017-280P	January 01, 2025	to	December 31, 2025
PRM 2025-PRM6	June 24, 2025	to	December 31, 2025
RCMF 2021-FL5	January 01, 2025	to	March 25, 2025

RCMF 2021-FL6	January 01, 2025	to	March 25, 2025
RCMF 2021-FL7	January 01, 2025	to	December 31, 2025
RCMF 2022-FL10	January 01, 2025	to	June 25, 2025
RCMF 2022-FL8	January 01, 2025	to	March 25, 2025
RCMF 2022-FL9	January 01, 2025	to	June 25, 2025
RCMF 2023-FL11	January 01, 2025	to	December 31, 2025
RCMF 2023-FL12	January 01, 2025	to	December 31, 2025
RIAL 2022-FL8	January 01, 2025	to	July 21, 2025
RIDE 2025-SHRE	February 21, 2025	to	December 31, 2025
RLGH 2021-TROT	January 01, 2025	to	July 15, 2025
SBALR 2020-RR1	January 01, 2025	to	December 31, 2025
SCG 2024-MSP	January 01, 2025	to	December 31, 2025
SCG 2025-FLWR	August 19, 2025	to	December 31, 2025
SCOTT 2023-SFS	January 01, 2025	to	December 31, 2025
SELF 2024-STRG	January 01, 2025	to	December 31, 2025
SFO 2021-S55	January 01, 2025	to	December 31, 2025
SGCMS 2016-C5	January 01, 2025	to	December 31, 2025
SGCP 2021-FL3	January 01, 2025	to	December 31, 2025
SGCP 2022-FL4	January 01, 2025	to	December 31, 2025
SGCP 2023-FL5	January 01, 2025	to	December 31, 2025
SMR 2022-IND	January 01, 2025	to	December 31, 2025
SMRT 2022-MNI	January 01, 2025	to	December 31, 2025
SPGN 2022-TFLM	January 01, 2025	to	December 31, 2025
SREIT 2021-FLWR	January 01, 2025	to	December 31, 2025
SREIT 2021-MFP	January 01, 2025	to	December 31, 2025
SREIT 2021-MFP2	January 01, 2025	to	December 31, 2025
STWD 2021-HTS	January 01, 2025	to	December 31, 2025
SWCH 2025-DATA	February 18, 2025	to	December 31, 2025
TCO 2024-DPM	January 01, 2025	to	December 31, 2025
THPT 2023-THL	January 01, 2025	to	December 31, 2025
UBS 2017-C2	January 01, 2025	to	December 31, 2025
UBS 2017-C3	January 01, 2025	to	December 31, 2025
UBS 2017-C5	January 01, 2025	to	December 31, 2025
UBS 2018-C10	January 01, 2025	to	December 31, 2025
UBS 2018-C12	January 01, 2025	to	December 31, 2025
UBS 2018-C14	January 01, 2025	to	December 31, 2025
UBS 2018-C8	January 01, 2025	to	December 31, 2025
UBS 2019-C16	January 01, 2025	to	December 31, 2025
UBS 2019-C18	January 01, 2025	to	December 31, 2025
UBSBB 2012-C3	January 01, 2025	to	January 13, 2025
UBSBB 2013-C6	January 01, 2025	to	December 31, 2025
UNIV 2025-APTS	November 25, 2025	to	December 31, 2025
VASA 2021-VASA	January 01, 2025	to	December 31, 2025
VDCM 2025-AZ	July 10, 2025	to	December 31, 2025
VLS 2020-LAB	January 01, 2025	to	December 31, 2025
WBHT 2019-WBM	January 01, 2025	to	June 16, 2025
WBRK 2025-WBRK	March 06, 2025	to	December 31, 2025
WEST 2025-ROSE	March 28, 2025	to	December 31, 2025
WFCM 2013-LC12	January 01, 2025	to	December 31, 2025
WFCM 2014-LC18	January 01, 2025	to	December 31, 2025
WFCM 2015-LC22	January 01, 2025	to	December 31, 2025
WFCM 2016-BNK1	January 01, 2025	to	December 31, 2025
WFCM 2016-C33	January 01, 2025	to	December 31, 2025
WFCM 2016-C36	January 01, 2025	to	December 31, 2025
WFCM 2016-NX55	January 01, 2025	to	December 31, 2025
WFCM 2017-C38	January 01, 2025	to	December 31, 2025
WFCM 2017-C42	January 01, 2025	to	December 31, 2025
WFCM 2018-C43	January 01, 2025	to	December 31, 2025
WFCM 2018-C45	January 01, 2025	to	December 31, 2025
WFCM 2018-C47	January 01, 2025	to	December 31, 2025
WFCM 2019-C50	January 01, 2025	to	December 31, 2025
WFCM 2019-C53	January 01, 2025	to	December 31, 2025
WFCM 2019-C54	January 01, 2025	to	December 31, 2025
WFCM 2020-C55	January 01, 2025	to	December 31, 2025
WFCM 2022-C62	January 01, 2025	to	December 31, 2025
WFCM 2022-J82	January 01, 2025	to	December 31, 2025
WFCM 2022-ONL	January 01, 2025	to	December 31, 2025
WFCM 2024-C63	January 01, 2025	to	December 31, 2025
WFCM 2024-MGP	January 01, 2025	to	December 15, 2025
WFCM 2025-5C5	July 30, 2025	to	December 31, 2025
WFCM 2025-5C6	October 08, 2025	to	December 31, 2025
WFCM 2025-AURA	October 15, 2025	to	December 31, 2025
WFCM 2025-C64	February 27, 2025	to	December 31, 2025
WFCM 2025-DWHP	April 23, 2025	to	December 31, 2025
WHARF 2025-DC	June 26, 2025	to	December 31, 2025
WPT 2017-WWP	January 01, 2025	to	December 31, 2025
WSTN 2023-MAUI	January 01, 2025	to	December 31, 2025

EXHIBIT B

Regulation AB Reference	SERVICING CRITERIA Criterion	APPLICABLE SERVICING CRITERIA		INAPPLICABLE SERVICING CRITERIA	
		Performed Directly by PBLIS ¹	Performed by Vendor(s) for which PBLIS is the Responsible Party	Performed by servicer(s) or vendor(s) for which PBLIS is NOT the Responsible Party	NOT performed by PBLIS or by servicer(s) or vendor(s) retained by PBLIS ²
General Servicing Considerations					
1122(d)(1)(i)	Policies and procedures are instituted to monitor any performance or other triggers and events of default in accordance with the transaction agreements.				X
1122(d)(1)(ii)	If any material servicing activities are outsourced to third parties, policies and procedures are instituted to monitor the third party's performance and compliance with such servicing activities.				X
1122(d)(1)(iii)	Any requirements in the transaction agreements to maintain a back-up servicer for the pool assets are maintained.				X
1122(d)(1)(iv)	A fidelity bond and errors and omissions policy is in effect on the party participating in the servicing function throughout the reporting period in the amount of coverage required by and otherwise in accordance with the terms of the transaction agreements.				X
1122(d)(1)(v)	Aggregation of information, as applicable, is mathematically accurate and the information conveyed accurately reflects the information.				X
Cash Collection and Administration					
1122(d)(2)(i)	Payments on pool assets are deposited into the appropriate custodial bank accounts and related bank clearing accounts no more than two business days following receipt, or such other number of days specified in the transaction agreements.				X
1122(d)(2)(ii)	Disbursements made via wire transfer on behalf of an obligor or to an investor are made only by authorized personnel.				X
1122(d)(2)(iii)	Advances of funds or guarantees regarding collections, cash flows or distributions, and any interest or other fees charged for such advances, are made, reviewed and approved as specified in the transaction agreements.				X
1122(d)(2)(iv)	The related accounts for the transaction, such as cash reserve accounts or accounts established as a form of overcollateralization, are separately maintained (e.g., with respect to commingling of cash) as set forth in the transaction agreements.				X
	Each custodial account is maintained at a federally insured depository institution as set forth in the transaction agreements. For purposes of this				

1122(d)(2)(v)	criticon, "federally insured depository institution" with respect to a foreign financial institution means a foreign financial institution that meets the requirements of Rule 13k-1(b)(1) of the Securities Exchange Act.				X
1122(d)(2)(vi)	Unissued checks are safeguarded so as to prevent unauthorized access.				X
1122(d)(2)(vii)	Reconciliations are prepared on a monthly basis for all asset-backed securities related bank accounts, including custodial accounts and related bank clearing accounts. These reconciliations are (A) mathematically accurate; (B) prepared within 30 calendar days after the bank statement cutoff date, or such other number of days specified in the transaction agreements; (C) reviewed and approved by someone other than the person who prepared the reconciliation; and (D) contain explanations for reconciling items. These reconciling items are resolved within 90 calendar days of their original identification, or such other number of days specified in the transaction agreements.				X
Investor Remittances and Reporting					
1122(d)(3)(i)(A)	Reports to investors, including those to be filed with the Commission, are maintained in accordance with the transaction agreements and applicable Commission requirements. Specifically, such reports are prepared in accordance with timeframes and other terms set forth in the transaction agreements.	X			
1122(d)(3)(i)(B)	Reports to investors, including those to be filed with the Commission, are maintained in accordance with the transaction agreements and applicable Commission requirements. Specifically, such reports provide information calculated in accordance with the terms specified in the transaction agreements.	X			
1122(d)(3)(i)(C)	Reports to investors, including those to be filed with the Commission, are maintained in accordance with the transaction agreements and applicable Commission requirements. Specifically, such reports are filed with the Commission as required by its rules and regulations.	X ³			X ⁴
1122(d)(3)(i)(D)	Reports to investors, including those to be filed with the Commission, are maintained in accordance with the transaction agreements and applicable Commission requirements. Specifically, such reports agree with investors' or the trustee's records as to the total unpaid principal balance and number of pool assets serviced by the Servicer.	X ³			X ⁴
1122(d)(3)(ii)	Amounts due to investors are allocated and remitted in accordance with timeframes, distribution priority and other terms set forth in the transaction agreements.				X
1122(d)(3)(iii)	Disbursements made to an investor are posted within two business days to the Servicer's investor records, or such other number of days specified in the transaction agreements.				X
1122(d)(3)(iv)	Amounts remitted to investors per the investor reports agree with cancelled checks, or other form of payment, or custodial bank statements.				X
Pool Asset Administration					
1122(d)(4)(i)	Collateral or security on pool assets is maintained as required by the transaction agreements or related mortgage loan documents.				X
1122(d)(4)(ii)	Pool asset and related documents are safeguarded as required by the transaction agreements.				X
1122(d)(4)(iii)	Any additions, removals or substitutions to the asset pool are made, reviewed and approved in accordance with any conditions or requirements in the transaction agreements.				X
1122(d)(4)(iv)	Payments on pool assets, including any payoffs, made in accordance with the related pool asset documents are posted to the Servicer's obligor records maintained no more than two business days after receipt, or such other number of days specified in the transaction agreements, and allocated to principal, interest or other items (e.g., escrow) in accordance with the related pool asset documents.				X
1122(d)(4)(v)	The Servicer's records regarding the pool assets agree with the Servicer's records with respect to an obligor's unpaid principal balance.				X
1122(d)(4)(vi)	Changes with respect to the terms or status of an obligor's pool assets (e.g., loan modifications or re-ings) are made, reviewed and approved by authorized personnel in accordance with the transaction agreements and related pool asset documents.				X
1122(d)(4)(vii)	Loss mitigation or recovery actions (e.g., forbearance plans, modifications and deeds in lieu of foreclosure, foreclosures and repossessions, as applicable) are initiated, conducted and concluded in accordance with the timeframes or other requirements established by the transaction agreements.	X			
1122(d)(4)(viii)	Records documenting collection efforts are maintained during the period a pool asset is delinquent in accordance with the transaction agreements. Such records are maintained on at least a monthly basis, or such other period specified in the transaction agreements, and describe the entity's activities in monitoring delinquent pool assets including, for example, phone calls, letters and payment restructuring plans in cases where delinquency is deemed temporary (e.g., illness or unemployment).				X
1122(d)(4)(ix)	Adjustments to interest rates or rates of return for pool assets with variable rates are computed based on the related pool asset documents.				X
1122(d)(4)(x)	Regarding any funds held in trust for an obligor (such as escrow accounts): (A) such funds are analyzed, in accordance with the obligor's pool asset documents, on at least an annual basis, or such other period specified in the transaction agreements; (B) interest on such funds is paid, or credited, to obligors in accordance with applicable pool asset documents and state laws; and (C) such funds are returned to the obligor within 30 calendar days of full repayment of the related pool assets, or such other number of days specified in the transaction agreements.				X
1122(d)(4)(xi)	Payments made on behalf of an obligor (such as tax or insurance payments) are made on or before the related penalty or expiration dates, as indicated on the appropriate bills or notices for such payments, provided that such support has been received by the Servicer at least 30 calendar days prior to these dates, or such other number of days specified in the transaction agreements.				X
1122(d)(4)(xii)	Any late payment penalties in connection with any payment to be made on behalf of an obligor are paid from the Servicer's funds and not charged to the obligor, unless the late payment was due to the obligor's error or omission.				X
1122(d)(4)(xiii)	Disbursements made on behalf of an obligor are posted within two business days to the obligor's records maintained by the Servicer, or such other number of days specified in the transaction agreements.				X
1122(d)(4)(xiv)	Delinquencies, charge-offs and uncollectible accounts are recognized and recorded in accordance with the transaction agreements.				X
1122(d)(4)(xv)	Any external enhancement or other support, identified in Item 1114(a)(1) through (3) or Item 1115 of Regulation AB, is maintained as set forth in the transaction agreements.				X

¹ The criteria in the columns "Applicable Servicing Criteria" and marked with an "X" are applicable for the Transactions unless otherwise noted. If there were no specially serviced loans under the related Transactions during the reporting period, then no trust advisor, senior trust advisor or operating advisor actions were required.

² The criteria in the columns "Inapplicable Servicing Criteria" and marked with an "X" were not within the scope of the Asserting Party's duties in the Transactions.

³ Applicable only to the Transactions listed in Table 2 below.

⁴ Not applicable to Transactions other than the Transactions listed in Table 2 below.

Table 2

COMM 2012-LC4
COMM 2012-CCRE4
COMM 2012-CCRE5
COMM 2013-CCRE7
COMM 2013-CCRE9
COMM 2013-LC6
COMM 2013-LC13
COMM 2013-CCRE11
MSBAM 2012-C5

Management's Report on Assessment of Compliance with SEC Regulation AB Servicing Criteria

- CoreLogic Solutions, LLC (the "Company" or "CoreLogic") is responsible for providing an assertion on the Company's assessment of compliance with the servicing criteria applicable to it under paragraph (d) of Item 1122 of Regulation AB as of and for the year ended December 31, 2025, (the "specified period"). The transactions covered by this report include commercial mortgage loan outsourcing customers for which CoreLogic acted as the tax service provider (the "Platform").
- Except as set forth in paragraph 3 below, CoreLogic used the criteria set forth in paragraph (d) of Item 1122 of Regulation AB to provide an assertion on the Company's assessment of compliance with the applicable servicing criteria.
- The criteria listed in the column titled "Inapplicable Servicing Criteria" in Appendix A hereto are inapplicable to CoreLogic based on the activities performed with respect to the Platform for the specified period.
- CoreLogic has complied, in all material respects, with the applicable servicing criteria for the specified period with respect to the Platform taken as a whole.
- Grant Thornton LLP, an independent registered public accounting firm, has issued an attestation report on CoreLogic's assertion on compliance with the applicable servicing criteria for the reporting period.

CoreLogic Solutions, LLC
January 30, 2026

By: /s/ Kirk Randlett
Kirk Randlett, VP, Operations

Appendix A

Reference	Criteria	APPLICABLE SERVICING CRITERIA		INAPPLICABLE SERVICING CRITERIA	
		Performed directly by CoreLogic	Performed by Vendor(s) for which CoreLogic is the Responsible Party	Performed by Vendor(s) for which CoreLogic is NOT the Responsible Party	NOT performed by CoreLogic or by vendor(s) retained by CoreLogic
General Servicing Considerations					
1122(d)(1)(g)	Policies and procedures are instituted to monitor any performance or other triggers and events of default in accordance with the transaction agreements.				X
1122(d)(1)(ii)	If any material servicing activities are outsourced to third parties, policies and procedures are instituted to monitor the third party's performance and compliance with such servicing activities.				X
1122(d)(1)(iii)	Any requirements in the transaction agreements to maintain a back-up servicer for the pool assets are maintained.				X
1122(d)(1)(iv)	A fidelity bond and errors and omissions policy is in effect on the party participating in the servicing function throughout the reporting period in the amount of coverage required by and otherwise in accordance with the terms of the transaction agreements.	X			
1122(d)(1)(v)	An assessment is conducted of the conveyance and mathematical accuracy of data that is aggregated by one party and then provided to a servicing party.				X
Cash Collection and Administration					
1122(d)(2)(g)	Payments on pool assets are deposited into the appropriate custodial bank accounts and related bank clearing accounts no more than two business days of receipt, or such other number of days specified in the transaction agreements.				X
1122(d)(2)(g)	Disbursements made via wire transfer on behalf of an obligor or to an investor are made only by authorized personnel.	X			
1122(d)(2)(iii)	Advances of funds or guarantees regarding collections, cash flows or distributions and any interest or other fees charged for such advances, are made, reviewed and approved as specified in the transaction agreements.				X
1122(d)(2)(iv)	The related accounts for the transaction, such as cash reserve accounts or accounts established as a form of overcollateralization, are separately maintained (e.g., with respect to commingling of cash) as set forth in the transaction agreements.				X
1122(d)(2)(v)	Each custodial account is maintained at a federally insured depository institution as set forth in the transaction agreements. For purposes of this criterion, "federally insured depository institution" with respect to a foreign financial institution means a foreign financial institution that meets the requirements of § 240.13k-1(b)(1) of this chapter.	X			
1122(d)(2)(vi)	Unissued checks are safeguarded so as to prevent unauthorized access.	X			
1122(d)(2)(vi)	Reconciliations are prepared on a monthly basis for all asset-backed securities related bank accounts, including custodial accounts and related bank clearing accounts. These reconciliations: (A) Are mathematically accurate; (B) Are prepared within 30 calendar days after the bank statement cutoff date, or such other number of days specified in the transaction agreements; (C) Are reviewed and approved by someone other than the person who prepared the reconciliation; and (D) Contain explanations for reconciling items. These reconciling items are resolved within 90 calendar days of their original identification, or such other number of days specified in the transaction agreements.	X			
Investor Remittances and Reporting					
1122(d)(3)(g)	Reports to investors, including those to be filed with the Commission, are maintained in accordance with the transaction agreements and applicable Commission requirements. Specifically, such reports: (A) Are prepared in accordance with timeframes and other terms set forth in the transaction agreements; (B) Provide information calculated in accordance with the terms specified in the transaction agreements; (C) Are filed with the Commission as required by its rules and regulations; and (D) Agree with investors' or the trustee's records as to the total unpaid principal balance and number of pool assets serviced by the servicer.				X
1122(d)(3)(g)	Amounts due to investors are allocated and remitted in accordance with timeframes, distribution priority and other terms set forth in the transaction agreements.				X
1122(d)(3)(iii)	Disbursements made to an investor are posted within two business days to the servicer's investor records, or such other number of days specified in the transaction agreements.				X
1122(d)(3)(iv)	Amounts remitted to investors per the investor reports agree with cancelled checks, or other form of payment, or custodial bank statements.				X
Pool Asset Administration					
1122(d)(4)(g)	Collateral or security on pool assets is maintained as required by the transaction agreements or related pool asset documents.				X
1122(d)(4)(g)	Pool assets and related documents are safeguarded as required by the transaction agreements.				X
1122(d)(4)(iii)	Any additions, removals or substitutions to the asset pool are made, reviewed and approved in accordance with any conditions or requirements in the transaction agreements.				X
1122(d)(4)(iv)	Payments on pool assets, including any payoffs, made in accordance with the related pool asset documents are posted to the applicable servicer's obligor records maintained no more than two business days after receipt, or such other number of days specified in the transaction agreements, and allocated to principal, interest or other items (e.g., escrow) in accordance with the related pool asset documents.				X
1122(d)(4)(v)	The servicer's records regarding the pool assets agree with the servicer's records with respect to an obligor's unpaid principal balance.				X
1122(d)(4)(vi)	Changes with respect to the terms or status of an obligor's pool asset (e.g., loan modifications or re-agings) are made, reviewed and approved by authorized personnel in accordance with the transaction agreements and related pool asset documents.				X

1122(d)(4)(vii)	Loss mitigation or recovery actions (e.g., forbearance plans, modifications and deeds in lieu of foreclosure, foreclosures and repossessions, as applicable) are initiated, conducted and concluded in accordance with the timeframes or other requirements established by the transaction agreements.				X
1122(d)(4)(viii)	Records documenting collection efforts are maintained during the period a pool asset is delinquent in accordance with the transaction agreements. Such records are maintained on at least a monthly basis, or such other period specified in the transaction agreements, and describe the entity's activities in monitoring delinquent pool assets including, for example, phone calls, letters and payment rescheduling plans in cases where delinquency is deemed temporary (e.g., illness or unemployment).				X
1122(d)(4)(ix)	Adjustments to interest rates or rates of return for pool assets with variable rates are computed based on the related pool asset documents.				X
1122(d)(4)(x)	Regarding any funds held in trust for an obligor (such as escrow accounts): (A) Such funds are analyzed, in accordance with the obligor's pool asset documents, on at least an annual basis, or such other period specified in the transaction agreements; (B) Interest on such funds is paid, or credited, to obligors in accordance with applicable pool asset documents and state laws; and (C) Such funds are returned to the obligor within 30 calendar days of full repayment of the related pool asset, or such other number of days specified in the transaction agreements.				X
1122(d)(4)(xi)	Payments made on behalf of an obligor (such as tax or insurance payments) are made on or before the related penalty or expiration dates, as indicated on the appropriate bills or notices for such payments, provided that such support has been received by the servicer at least 30 calendar days prior to these dates, or such other number of days specified in the transaction agreements.	X			
1122(d)(4)(xii)	Any late payment penalties in connection with any payment to be made on behalf of an obligor are paid from the servicer's funds and not charged to the obligor, unless the late payment was due to the obligor's error or omission.				X
1122(d)(4)(xiii)	Disbursements made on behalf of an obligor are posted within two business days to the obligor's records maintained by the servicer, or such other number of days specified in the transaction agreements.				X
1122(d)(4)(xiv)	Delinquencies, charge-offs and uncollectible accounts are recognized and recorded in accordance with the transaction agreements.				X
1122(d)(4)(xv)	Any external enhancement or other support, identified in Item 1114(a)(1) through (3) or Item 1115 of this Regulation AB, is maintained as set forth in the transaction agreements.				X

ASSESSMENT OF COMPLIANCE WITH THE APPLICABLE SERVICING CRITERIA
Computershare Corporate Trust- CMBS Platform

The management ("Management") of the Computershare Corporate Trust division of Computershare Trust Company, National Association (the "Company") is responsible for assessing the Company's compliance with the applicable servicing criteria set forth in Item 1122(d) of Regulation AB of the Securities and Exchange Commission. Management has determined that the servicing criteria are applicable to the servicing platform for the period as follows:

Purchase of corporate trust business. On November 1, 2021, Wells Fargo Bank, N.A. ("Wells Fargo") and certain of its affiliates sold substantially all of its Corporate Trust Services ("CTS") division to the Company, Computershare Delaware Trust Company ("CDTL"), and Computershare Limited ("Computershare Limited") and collectively with the Company and CDTL, "Computershare". Virtually all CTS employees of Wells Fargo, along with most existing CTS systems, technology, and offices transferred to Computershare as part of the sale.

For the CMBS Platform (defined below) transactions and during the Period (defined below), the Company either (i) served directly in the related trustee, securities administration, paying agent, and/or related roles (collectively, the "CMBS Platform Roles"), or (ii) served as agent for Wells Fargo who remained in the related CMBS Platform Roles. More specifically, since its acquisition of the Wells Fargo CTS business on November 1, 2021, including during the Period, the Company has (i) closed new CMBS transactions and (ii) completed the transfer of certain CMBS transaction roles from Wells Fargo CTS to Computershare, for which, in each case, during all or a portion of the Period, the Company performed the related CMBS Platform Roles directly (the "Company's Direct Role Transactions"). The Company's Direct Role Transactions comprise a small percentage of the overall CMBS Platform transactions for the Period. For a significant majority of CMBS Platform transactions, the Company served, during all or a portion of the Period, as agent for Wells Fargo who remained in the related CMBS Platform Roles (the "Company's Agent Role Transactions"). For the Company's Agent Role Transactions, Wells Fargo had not, as of the beginning of the Period, transferred to Computershare the CMBS Platform Roles for the Company's Agent Role Transactions, and therefore the Company performed, during all or a portion of the Period, virtually all of Wells Fargo's contractual duties for such transactions as its agent. As a result, for the Company's Agent Role Transactions, the Company and Wells Fargo have determined that the Company is a party participating in the servicing function with respect to the CMBS Platform, and accordingly, the Company is taking responsibility for assessing its compliance with the Applicable Servicing Criteria (defined below) relevant to the servicing activities performed by the Company for the CMBS Platform, as of and for the twelve months ended December 31, 2025.

Period: As of January 1, 2025 through and including December 31, 2025 (the "Period").

Platform: The platform consists of commercial mortgage-backed securities ("CMBS") transactions backed by pools of commercial mortgage loans and/or backed by CMBS for which the Company provides trustee, securities administration, paying agent services, and/or related roles, either directly in the related role for such services or as the agent of the party performing such services, and for which either (a) some or all of the issued securities for such CMBS transactions were publicly offered pursuant to a registration statement delivered under the Securities Act of 1933, as amended, or (b) the issued securities for such CMBS transactions were privately offered pursuant to an exemption from registration and the Company (and/or the party for whom it acts agent) has an obligation under the transaction agreements to deliver an assessment of compliance with the applicable servicing criteria under Item 1122(d) of Regulation AB; provided however that, the platform excludes any transactions for which the offered securities were issued, sponsored and/or guaranteed by any agency or instrumentality of the U.S. government or any government-sponsored entity (the "CMBS Platform"). Appendix A identifies the individual transactions defined by Management as constituting the CMBS Platform for the Period.

Applicable Servicing Criteria: All servicing criteria set forth in Item 1122(d) are applicable to either the Company's obligations, or the obligations of the party for whom the Company ultimately acts as agent, in either case under the related transaction agreements with respect to the CMBS Platform for the Period (as applicable, the "Company's Obligations"), except for the following servicing criteria: 1122(d)(4)(vi), 1122(d)(4)(vii), 1122(d)(4)(viii), 1122(d)(4)(ix), 1122(d)(4)(x), 1122(d)(4)(xi), 1122(d)(4)(xii) and 1122(d)(4)(xiii), which Management has determined are not applicable to the Company's Obligations with respect to the CMBS Platform for the Period; provided however that, with respect to the CMBS Platform (a) servicing criterion 1122(d)(1)(v) is applicable only to the Company's Obligations related to the aggregation of information received and the conveyance of such information, in each case, as required by the transaction agreements, and (b) servicing criterion 1122(d)(4)(iii) is applicable only to the Company's Obligations related to the process of making or effecting an addition, removal or substitution to the asset pool in accordance with the transaction agreements (the "Applicable Servicing Criteria").

Third parties classified as vendors: With respect to servicing criterion 1122(d)(4)(i), the Company engaged a vendor to handle certain Uniform Commercial Code filing obligations required by the servicing criterion. With respect to servicing criterion 1122(d)(2)(vi) for certain transactions in the CMBS Platform, the Company engaged a vendor to make certain payments by check to investors and/or third parties, and such vendor also safeguards certain unissued checks. In each case, Management has determined that the vendor is not considered a "servicer" as defined in Item 1101(g) of Regulation AB, and Management elects to take responsibility for assessing compliance with the portion of the servicing criterion applicable to each vendor as permitted by the SEC's *Compliance and Disclosure Interpretation ("C&D") 200.06, Vendors Engaged by Servicers ("C&D 200.06")*. The Company has policies and procedures in place designed to provide reasonable assurance that the activities of each vendor comply in all material respects with the servicing criterion applicable to the vendor. Management is solely responsible for determining that the Company meets the SEC requirements to apply *C&D 200.06* for each vendor and the related servicing criterion.

With respect to the CMBS Platform and the Period, Management provides the following assessment of the Company's compliance with respect to the Applicable Servicing Criteria:

- Management is responsible for assessing the Company's compliance with the Applicable Servicing Criteria.
- Management has assessed the Company's compliance with the Applicable Servicing Criteria, including the servicing criteria for which compliance is determined based on C&D 200.06, as described above. In performing this assessment, Management used the criteria set forth by the Securities and Exchange Commission in paragraph (d) of Item 1122 of Regulation AB.
- With respect to Applicable Servicing Criteria 1122(d)(1)(iii), 1122(d)(2)(iii), and 1122(d)(4)(iii), Management has determined that there were no activities performed during the Period with respect to the CMBS Platform, because there were no occurrences of events that would require the Company to perform such activities.
- Based on such assessment for the Period, the Company has complied in all material respects with the Applicable Servicing Criteria for the Period.

PricewaterhouseCoopers LLP, an independent registered public accounting firm, has issued an attestation report with respect to Management's assessment of the Company's compliance with the Applicable Servicing Criteria for the Period.

Computershare Trust Company, National Association

By: /s/ Kristen Ann Cronin
Kristen Ann Cronin
Title: Senior Vice President
Dated: February 18, 2026

Appendix A to the Company's Assessment of Compliance with the Applicable Servicing Criteria

CMBS Platform Transactions	
Deal Key	Long Name
36502021-PF1	3650R 2021-PF1 Commercial Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2021-PF1
3650R2022-PF2	3650R 2022-PF2 Commercial Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2022-PF2
AHPT2024-ATRM	Atrium Hotel Portfolio Trust 2024-ATRM Commercial Mortgage Pass-Through Certificates Series 2024-ATRM
AMMST2021-MF2	Arbor Multifamily Mortgage Securities Trust 2021-MF2 Multifamily Mortgage Pass-Through Certificates Series 2021-MF2
AMMST2021-MF3	Arbor Multifamily Mortgage Securities Trust 2021-MF3 Multifamily Mortgage Pass-Through Certificates Series 2021-MF3
AMMST2022-MF4	Arbor Multifamily Mortgage Securities Trust 2022-MF4 Multifamily Mortgage Pass-Through Certificates Series 2022-MF4
BAC 2006-4	Bank of America Commercial Mortgage Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-4
BACM2016-UBS10	Bank of America Merrill Lynch Commercial Mortgage Trust 2016-UBS10, Commercial Mortgage Pass-Through Certificates, Series 2016-UBS10
BACM-2017-BNK3	Bank of America Merrill Lynch Commercial Mortgage Trust 2017-BNK3, Commercial Mortgage Pass-Through Certificates, Series 2017-BNK3
BACM2017-BNK6	BANK 2017-BNK6 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK6
BACM2017-BNK9	BANK 2017-BNK9 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK9
BACM2018-BNK12	BANK 2018-BNK12 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK12
BACM2018-BNK15	BANK 2018-BNK15 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK15
BACM2019-BNK18	BANK 2019-BNK18 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK18
BACM2019-BNK21	BANK 2019-BNK21 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK21
BACM2019-BNK24	BANK 2019-BNK24 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK24
BACM2020-BNK27	BANK 2020-BNK27 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK27
BACM2020-BNK30	BANK 2020-BNK30 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK30
BACM2021-BNK33	BANK 2021-BNK33 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK33
BACM2021-BNK36	BANK 2021-BNK36 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK36
BAML12016-ISQR	BAML Commercial Mortgage Securities Trust 2016-ISQR, Commercial Mortgage Pass-Through Certificates, Series 2016-ISQR
BAML12017-AMO	Del Amo Fashion Center Trust 2017-AMO Commercial Mortgage Pass-Through Certificates, Series 2017-AMO
BAML12019-LIC	Jackson Park Trust 2019-LIC, Commercial Mortgage Pass-Through Certificates, Series 2019-LIC
BAML12020-BHP3	BAML Commercial Mortgage Securities Trust 2020-BHP3, Commercial Mortgage Pass-Through Certificates, Series 2020-BHP3
BAML12020-BOC	BAML Commercial Mortgage Securities Trust 2020-BOC, Commercial Mortgage Pass-Through Certificates, Series 2020-BOC
BAML12020-GRCE	Grace Trust 2020-GRCE Commercial Mortgage Pass-Through Certificates, Series 2020-GRCE
BANK2018-BNK11	BANK 2018-BNK11 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK11
BANK2019-BNK23	BANK 2019-BNK23 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK23
BANK2020-BNK26	BANK 2020-BNK26 Commercial Mortgage Pass Through Certificates, Series 2020-BNK26
BANK2020-BNK28	BANK 2020-BNK28 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK28
BANK2020-BNK29	BANK 2020-BNK29 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK29
BANK2021-BNK31	BANK 2021-BNK31 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK31
BANK2021-BNK32	BANK 2021-BNK32 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK32
BANK2021-BNK35	BANK 2021-BNK35 Commercial Mortgage Pass Through Certificates, Series 2021-BNK35
BANK2021-BNK38	BANK 2021-BNK38 Commercial Mortgage Pass Through Certificates, Series 2021-BNK38
BANK2022-BNK39	BANK 2022-BNK39 Commercial Mortgage Pass-Through Certificates, Series 2022-BNK39
BANK2022-BNK40	BANK 2022-BNK40 Commercial Mortgage Pass-Through Certificates, Series 2022-BNK40
BANK2022-BNK41	BANK 2022-BNK41 Commercial Mortgage Pass-Through Certificates, Series 2022-BNK41
BANK2022-BNK42	BANK 2022-BNK42 Commercial Mortgage Pass-Through Certificates, Series 2022-BNK42
BANK2022-BNK43	BANK 2022-BNK43 Commercial Mortgage Pass-Through Certificates, Series 2022-BNK43
BANK2022-BNK44	BANK 2022-BNK44 Commercial Mortgage Pass-Through Certificates, Series 2022-BNK44
BANK2023-BNK45	BANK 2023-BNK45 Commercial Mortgage Pass-Through Certificates, Series 2023-BNK45
BANK2023-BNK46	BANK 2023-BNK46 Commercial Mortgage Pass-Through Certificates, Series 2023-BNK46

BMARK2020-B22	Benchmark 2020-B22 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2020-B22
BMARK2020-IG1	Benchmark 2020-IG1 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2020-IG1
BMARK2020-IG2	Benchmark 2020-IG2 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2020-IG2
BMARK2020-IG3	Benchmark 2020-IG3 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2020-IG3
BMARK2021-B24	Benchmark 2021-B24 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2021-B24
BMARK2021-B25	Benchmark 2021-B25 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2021-B25
BMARK2021-B26	Benchmark 2021-B26 Mortgage Trust Commercial Mortgage Pass- Through Certificates Series 2021-B26
BMARK2021-B28	Benchmark 2021-B28 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2021-B28
BMARK2021-B29	Benchmark 2021-B29 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2021-B29
BMARK2021-B30	Benchmark 2021-B30 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2021-B30
BMARK2022-B32	Benchmark 2022-B32 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2022-B32
BMARK 2022-B33	Benchmark 2022-B33 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2022-B33
BMARK2022-B34	Benchmark 2022-B34 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2022-B34
BMARK2022-B35	Benchmark 2022-B35 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2022-B35
BMARK2022-B36	Benchmark 2022-B36 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2022-B36
BMARK2022-B37	Benchmark 2022-B37 Mortgage Trust Commercial Mortgage Pass- Through Certificates Series 2022-B37
BMARK2022-B38	Benchmark 2022-B38 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2022-B38
BMARK2022-B39	Benchmark 2022-B39 Mortgage Trust Commercial Mortgage Pass- Through Certificates Series 2022-B39
BMARK2023-B40	Benchmark 2023-B40 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2023-B40
BMARK2023-V2	Benchmark 2023-V2 Mortgage Trust, Commercial Mortgage Pass- Through Certificates Series 2023-V2
BMARK2023-V3	Benchmark 2023-V3 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2023-V3
BMARK2023-V4	Benchmark 2023-V4 Mortgage Trust, Commercial Mortgage Pass- Through Certificates, Series 2023-V4
BMARK2024-V11	Benchmark 2024-V11 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2024-V11
BMARK2024-V12	Benchmark 2024-V12 Mortgage Trust Commercial Mortgage Pass- Through Certificates Series 2024-V12
BMARK2024-V5	Benchmark 2024-V5 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2024-V5
BMARK2024-V6	Benchmark 2024-V6 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2024-V6
BMARK2024-V7	Benchmark 2024-V7 Mortgage Trust, Commercial Mortgage Pass- Through Certificates, Series 2024-V7
BMARK2024-V8	Benchmark 2024-V8 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2024-V8
BMARK2024-V9	Benchmark 2024-V9 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2024-V9
BMARK2025-B41	Benchmark 2025-B41 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2025-B41
BMARK2025-V14	Benchmark 2025-V14 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2025-V14
BMARK2025-V15	Benchmark 2025-V15 Mortgage Trust Commercial Mortgage Pass- Through Certificates Series 2025-V15
BMARK2025-V17	Benchmark 2025-V17 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2025-V17
BMARK2025-V18	Benchmark 2025-V18 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2025-V18
BMO2022-C1	BMO 2022-C1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2022-C1
BMO2022-C2	BMO 2022-C2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2022-C2
BMO2022-C3	BMO 2022-C3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2022-C3
BMO2023-SC1	BMO 2023-SC1 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2023-SC1
BMO2023-SC2	BMO 2023-SC2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2023-SC2
BMO2023-C4	BMO 2023-C4 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2023-C4
BMO2023-C5	BMO 2023-C5 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2023-C5
BMO2023-C6	BMO 2023-C6 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2023-C6
BMO2023-C7	BMO 2023-C7 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2023-C7
BMO2024-SC3	BMO 2024-SC3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2024-SC3
BMO2024-SC4	BMO 2024-SC4 Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2024-SC4
BMO2024-SC5	BMO 2024-SC5 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2024-SC5
BMO2024-SC6	BMO 2024-SC6 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2024-SC6
BMO2024-SC7	BMO 2024-SC7 Mortgage Trust Commercial Mortgage Pass Through Certificates Series 2024-SC7
BMO2024-SC8	BMO 2024-SC8 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2024-SC8
BMO2024-C9	BMO 2024-C9 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2024-C9
BMO2025-SC11	BMO 2025-SC11 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2025-SC11
BMO2025-SC12	BMO 2025-SC12 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2025-SC12
BMO2025-SC13	BMO 2025-SC13 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2025-SC13
BMO2025-SC9	BMO 2025-SC9 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2025-SC9
BMO2025-C11	BMO 2025-C11 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2025-C11
BWAY2022-268W	BWAY Commercial Mortgage Trust 2022-268W Commercial Mortgage Pass-Through Certificates, Series 2022-268W
BWAY2025-1535	BWAY Trust 2025-1535 Commercial Mortgage Pass-Through Certificates, Series 2025-1535
BX2019-OC11	BX Trust 2019-OC11 Commercial Mortgage Pass-Through Certificates, Series 2019-OC11
BX 2024-BIO2	BX Commercial Mortgage Trust 2024-BIO2 Commercial Mortgage Pass- Through Certificates, Series 2024-BIO2
BX2025-ARIA	BX Trust 2025-ARIA Commercial Mortgage Pass-Through Certificates, Series 2025-ARIA
BX2025-LIFE	BX Trust 2025-LIFE, Commercial Mortgage Pass-Through Certificates, Series 2025-LIFE
BXP2021-601L	BXP Trust 2021-601L Commercial Mortgage Pass-Through Certificates, Series 2021-601L
CAMB2021-CX2	CAMB 2021-CX2 Mortgage Trust Commercial Mortgage Pass-Through Certificates
CCRE2019-FAX	CFR Trust 2019-FAX Commercial Mortgage Pass-Through Certificates, Series 2019-FAX
CCUBS2017-C1	CCUBS Commercial Mortgage Trust 2017-C1 Commercial Mortgage Pass- Through Certificates, Series 2017-C1
CD2016-CD1	CD 2016-CD1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-CD1
CD2016-CD2	CD 2016-CD2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-CD2
CD2017-CD3	CD 2017-CD3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-CD3
CD2017-CD4	CD 2017-CD4 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-CD4
CD2017-CD6	CD 2017-CD6 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-CD6
CD2018-CD7	CD 2018-CD7 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-CD7
CD2019-CD8	CD 2019-CD8 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-CD8
CF2019-CF3	CF 2019-CF3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-CF3
CFCRE 2016-C3	CFCRE 2016-C3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C3
CFCRE2016-C6	CFCRE 2016-C6 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C6
CFCRE2016-C7	CFCRE 2016-C7 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C7
CFCRE2017-C8	CFCRE 2017-C8 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-C8
CGCMT2016-GC36	Cingroup Commercial Mortgage Trust 2016-GC36, Commercial Mortgage Pass-Through Certificates, Series 2016-GC36
CGCMT2022-GC48	Cingroup Commercial Mortgage Trust 2022-GC48, Commercial Mortgage Pass-Through Certificates, Series 2022-GC48
CGCMT2023-PRM3	Cingroup Commercial Mortgage Trust 2023-PRM3, Commercial Mortgage Pass-Through Certificates, Series 2023-PRM3
COBALT 2007-C2	COBALT CMBS Commercial Mortgage Trust 2007-C2, Commercial Mortgage Pass-Through Certificates, Series 2007-C2
COLEM 2022-HLNE	COLEM 2022-HLNE Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2022-HLNE
COMM12-CCRE1	COMM 2012-CCRE1 Commercial Mortgage Pass-Through Certificates
COMM12-CCRE4	COMM 2012-CCRE4 Commercial Mortgage Pass-Through Certificates
COMM12-CCRE5	COMM 2012-CCRE5 Commercial Mortgage Pass-Through Certificates
COMM13-CCRE7	COMM 2013-CCRE7 Commercial Mortgage Pass-Through Certificates

COMM13-LC6	COMM 2013-LC6 Commercial Mortgage Pass-Through Certificates
COMM15-CCRE23	COMM 2015-CCRE23 Commercial Mortgage Pass-Through Certificates
COMM 2004-LNB2	COMM 2004-LNB2 Commercial Mortgage Pass-Through Certificates
COMM 2005-C6	COMM 2005-C6 Commercial Mortgage Pass-Through Certificates
COMM2013-CCRE10	COMM 2013-CCRE10 Commercial Mortgage Pass-Through Certificates
COMM2013-CCRE12	COMM 2013-CCRE12 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE15	COMM 2014-CCRE15 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE16	COMM 2014-CCRE16 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE18	COMM 2014-CCRE18 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE19	COMM 2014-CCRE19 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE20	COMM 2014-CCRE20 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE21	COMM 2014-CCRE21 Commercial Mortgage Pass-Through Certificates
COMM2014-LC15	COMM 2014-LC15 Commercial Mortgage Pass-Through Certificates
COMM2014-LC17	COMM 2014-LC17 Commercial Mortgage Pass-Through Certificates
COMM2014-LUBS3	COMM 2014-LUBS3 Commercial Mortgage Pass-Through Certificates
COMM2014-LUBS5	COMM2014-LUBS5 Commercial Mortgage Pass-Through Certificates
COMM2014-LUBS6	COMM 2014-LUBS6 Commercial Mortgage Pass-Through Certificates
COMM2015-CCRE24	COMM 2015-CCRE24 Commercial Mortgage Pass-Through Certificates
COMM2015-CCRE26	COMM 2015-CCRE26 Commercial Mortgage Pass-Through Certificates
COMM2015-CCRE27	COMM 2015-CCRE27 Commercial Mortgage Pass-Through Certificates
COMM2015-DC1	COMM 2015-DC1 Commercial Mortgage Pass-Through Certificates
COMM2015-LC19	COMM 2015-LC19 Commercial Mortgage Pass-Through Certificates
COMM2015-LC23	COMM 2015-LC23 Commercial Mortgage Pass-Through Certificates
COMM2015-PC1	COMM 2015-PC1 Commercial Mortgage Pass-Through Certificates
COMM2016-10HY	Hudson Yards 2016-10HY Mortgage Trust Commercial Mortgage Pass-Through Certificates
COMM2016-667M	COMM 2016-667M Mortgage Trust Commercial Mortgage Pass-Through Certificates
COMM2016-CCRE28	COMM 2016-CCRE28 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-CCRE28
COMM2016-COR1	COMM 2016-COR1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-COR1
COMM2017-COR2	COMM 2017-COR2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-COR2
COMM2018-COR3	COMM 2018-COR3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-COR3
COMM2018-HOME	COMM 2018-HOME Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-HOME
COMM2019-GC44	COMM 2019-GC44 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-GC44
COMM2020-CX	COMM 2020-CX Mortgage Trust Commercial Mortgage Pass-Through Certificates
COMM2022-HC	COMM 2022-HC Mortgage Trust Commercial Mortgage Pass-Through Certificates
CPTS2019-CPT	CPTS 2019-CPT Mortgage Trust Commercial Mortgage Pass-Through Certificates
CSAIL2015-C1	Credit Suisse First Boston Mortgage Securities Corp. Commercial Mortgage Pass-Through Certificates, Series 2015-C1
CSAIL2015-C2	Credit Suisse First Boston Mortgage Securities Corp. Commercial Mortgage Pass-Through Certificates, Series 2015-C2
CSAIL2015-C3	Credit Suisse First Boston Mortgage Securities Corp. Commercial Mortgage Pass-Through Certificates, Series 2015-C3
CSAIL2015-C4	Credit Suisse First Boston Mortgage Securities Corp. Commercial Mortgage Pass-Through Certificates, Series 2015-C4
CSAIL2016-C5	CSAIL 2016-C5 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C5
CSAIL2016-C6	CSAIL 2016-C6 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C6
CSAIL2016-C7	CSAIL 2016-C7 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C7
CSAIL2017-C8	CSAIL 2017-C8 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-C8
CSAIL2017-CX10	CSAIL 2017-CX10 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-CX10
CSAIL2017-CX9	CSAIL 2017-CX9 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-CX9
CSAIL2018-C14	CSAIL 2018-C14 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-C14
CSAIL2018-CX11	CSAIL 2018-CX11 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-CX11
CSAIL 2018-CX12	CSAIL 2018-CX12 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-CX12
CSAIL2019-C15	CSAIL 2019-C15 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C15
CSAIL2019-C16	CSAIL 2019-C16 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C16
CSAIL2019-C17	CSAIL 2019-C17 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C17
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CSFB 2005-C2	Credit Suisse First Boston Mortgage Securities Corp. Commercial Mortgage Pass-Through Certificates, Series 2005-C2
CSFB 2005-C3	Credit Suisse First Boston Mortgage Securities Corp. Commercial Mortgage Pass-Through Certificates, Series 2005-C3
CSFB 2006-C4	Credit Suisse First Boston Mortgage Securities Corp. Commercial Mortgage Pass-Through Certificates, Series 2006-C4
CSFB 2007-C2	Credit Suisse First Boston Mortgage Securities Corp. Commercial Mortgage Pass-Through Certificates, Series 2007-C2
CSMC2016-NXSR	CSMC 2016-NXSR Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-NXSR
CSMC2019-UVIL	CSMC 2019-UVIL Commercial Mortgage Pass-Through Certificates, Series 2019-UVIL
CSMC2020-WEST	CSMC 2020-WEST Commercial Mortgage Pass-Through Certificates, Series 2020-WEST
DBGS2018-C1	DBGS 2018-C1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-C1
DBJPM2016-C1	DBJPM 2016-C1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C1
DBJPM2016-C3	DBJPM 2016-C3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C3
DBJPM2017-C6	DBJPM 2017-C6 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-C6
DBJPM2020-C9	DBJPM 2020-C9 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-C9
DBUBS 11-LC3	DBUBS 2011-LC3 Commercial Mortgage Pass-Through Certificates
DCOT2019-MTC	DC Office Trust 2019-MTC Commercial Mortgage Pass-Through Certificates, Series 2019-MTC
DMARC2017-OT	Olympic Tower 2017-OT Mortgage Trust Commercial Mortgage Pass-Through Certificates
DMARC2020-IMW	Manhattan West 2020-IMW Mortgage Trust Commercial Mortgage Pass-Through Certificates
GS 2007-GG10	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2007-GG10
GSM2015-GC28	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2015-GC28
GSM2015-GS1	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2015-GS1
GSM2013-GJ14	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2013-GJ14
GSM2013-GC12	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2013-GC12
GSM2014-GC20	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2014-GC20
GSM2014-GC22	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2014-GC22
GSM2014-GC34	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2014-GC34

GSM2015-590M	GS Mortgage Securities Corporation Trust 2015-590M, Commercial Mortgage Pass-Through Certificates, Series 2015-590M
GSM2015-GC32	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2015-GC32
GSM2016-GS2	GS Mortgage Securities Trust 2016-GS2 Commercial Mortgage Pass-Through Certificates, Series 2016-GS2
GSM2016-GS3	GS Mortgage Securities Trust 2016-GS3 Commercial Mortgage Pass-Through Certificates, Series 2016-GS3
GSM2016-GS4	GS Mortgage Securities Trust 2016-GS4 Commercial Mortgage Pass-Through Certificates, Series 2016-GS4
GSM2017-FARM	GS Mortgage Securities Corporation Trust 2017-FARM, Commercial Mortgage Pass-Through Certificates, Series 2017-FARM
GSM2017-GS5	GS Mortgage Securities Trust 2017-GS5 Commercial Mortgage Pass-Through Certificates, Series 2017-GS5
GSM2017-GS6	GS Mortgage Securities Trust 2017-GS6 Commercial Mortgage Pass-Through Certificates, Series 2017-GS6
GSM2017-GS7	GS Mortgage Securities Trust 2017-GS7 Commercial Mortgage Pass-Through Certificates Series 2017-GS7
GSM2017-GS8	GS Mortgage Securities Trust 2017-GS8 Commercial Mortgage Pass-Through Certificates Series 2017-GS8
GSM2017-WWP	Worldwide Plaza Trust 2017-WWP Commercial Mortgage Pass-Through Certificates, Series 2017-WWP
GSM2018-GS10	GS Mortgage Securities Trust 2018-GS10 Commercial Mortgage Pass-Through Certificates, Series 2018-GS10
GSM2018-GS9	GS Mortgage Securities Trust 2018-GS9 Commercial Mortgage Pass-Through Certificates, Series 2018-GS9
GSM2019-101C	CALI Mortgage Trust 2019-101C Commercial Mortgage Pass-Through Certificates, Series 2019-101C
GSM2019-1633	BWAY Trust 2019-1633 Commercial Mortgage Pass-Through Certificates, Series 2019-1633
GSM2019-GC38	GS Mortgage Securities Trust 2019-GC38 Commercial Mortgage Pass-Through Certificates, Series 2019-GC38
GSM2019-GC39	GS Mortgage Securities Trust 2019-GC39 Commercial Mortgage Pass-Through Certificates, Series 2019-GC39
GSM2019-GC40	GS Mortgage Securities Trust 2019-GC40 Commercial Mortgage Pass-Through Certificates, Series 2019-GC40
GSM2019-GC42	GS Mortgage Securities Trust 2019-GC42 Commercial Mortgage Pass-Through Certificates, Series 2019-GC42
GSM2019-GSA1	GS Mortgage Securities Trust 2019-GSA1 Commercial Mortgage Pass-Through Certificates, Series 2019-GSA1
GSM2020-GC45	GS Mortgage Securities Trust 2020-GC45 Commercial Mortgage Pass-Through Certificates, Series 2020-GC45
GSM2020-GC47	GS Mortgage Securities Trust 2020-GC47 Commercial Mortgage Pass-Through Certificates, Series 2020-GC47
GSM2020-GSA2	GS Mortgage Securities Trust 2020-GSA2 Commercial Mortgage Pass-Through Certificates Series 2020-GSA2
GSM2021-GSA3	GS Mortgage Securities Trust 2021-GSA3 Commercial Mortgage Pass Through Certificates, Series 2021-GSA3
GSMSC 2013-GC10	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2013-GC10
HIGH2023-FIVE	FIVE, 2023-VI Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2023-VI
HUDSONYARDS2019-30HY	Hudson Yards 2019-30HY Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Hudson Yards 2019-30HY Mortgage Trust
HY2025-SPRL	Hudson Yards 2025-SPRL Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2025-SPRL
ILPT2019-SURF	ILPT Trust 2019-SURF Commercial Mortgage Pass-Through Certificates, Series 2019-SURF
ILPT2022-LPFX	ILPT Commercial Mortgage Trust 2022-LPFX Commercial Mortgage Pass-Through Certificates, Series 2022-LPFX
ILPT2025-LPF2	ILPT Commercial Mortgage Trust 2025-LPF2 Commercial Mortgage Pass-Through Certificates, Series 2025-LPF2
INT2025-PLAZA	INT Commercial Mortgage Trust 2025-PLAZA, Commercial Mortgage Pass-Through Certificates, Series 2025-PLAZA
JPM 2013-C12	JPMBB Commercial Mortgage Securities Trust 2013-C12, Commercial Mortgage Pass-Through Certificates, Series 2013-C12
JPM2013-C13	J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-C13, Commercial Mortgage Pass-Through Certificates, Series 2013-C13
JPM2013-C14	JPMBB Commercial Mortgage Securities Trust 2013-C14, Commercial Mortgage Pass-Through Certificates, Series 2013-C14
JPM2013-C15	JPMBB Commercial Mortgage Securities Trust 2013-C15, Commercial Mortgage Pass-Through Certificates, Series 2013-C15
JPM2013-C16	J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-C16, Commercial Mortgage Pass-Through Certificates, Series 2013-C16
JPM2014-C18	JPMBB Commercial Mortgage Securities Trust 2014-C18, Commercial Mortgage Pass-Through Certificates, Series 2014-C18
JPM2014-C19	JPMBB Commercial Mortgage Securities Trust 2014-C19, Commercial Mortgage Pass-Through Certificates, Series 2014-C19
JPM2014-C20	J.P. Morgan Chase Commercial Mortgage Securities Trust 2014-C20, Commercial Mortgage Pass-Through Certificates, Series 2014-C20
JPM2014-C21	JPMBB Commercial Mortgage Securities Trust 2014-C21, Commercial Mortgage Pass-Through Certificates, Series 2014-C21
JPM2014-C22	JPMBB Commercial Mortgage Securities Trust 2014-C22, Commercial Mortgage Pass-Through Certificates, Series 2014-C22
JPM2014-C23	JPMBB Commercial Mortgage Securities Trust 2014-C23, Commercial Mortgage Pass-Through Certificates, Series 2014-C23
JPM2014-C24	JPMBB Commercial Mortgage Securities Trust 2014-C24, Commercial Mortgage Pass-Through Certificates, Series 2014-C24
JPM2014-C26	JPMBB Commercial Mortgage Securities Trust 2014-C26, Commercial Mortgage Pass-Through Certificates, Series 2014-C26
JPM2015-C27	JPMBB Commercial Mortgage Securities Trust 2015-C27, Commercial Mortgage Pass-Through Certificates, Series 2015-C27
JPM2015-C28	JPMBB Commercial Mortgage Securities Trust 2015-C28, Commercial Mortgage Pass-Through Certificates, Series 2015-C28
JPM2015-C29	JPMBB Commercial Mortgage Securities Trust 2015-C29, Commercial Mortgage Pass-Through Certificates, Series 2015-C29
JPM2015-C30	JPMBB Commercial Mortgage Securities Trust 2015-C30, Commercial Mortgage Pass-Through Certificates, Series 2015-C30
JPM2015-C31	JPMBB Commercial Mortgage Securities Trust 2015-C31, Commercial Mortgage Pass-Through Certificates, Series 2015-C31
JPM2015-C32	JPMBB Commercial Mortgage Securities Trust 2015-C32, Commercial Mortgage Pass-Through Certificates, Series 2015-C32
JPM2015-C33	JPMBB Commercial Mortgage Securities Trust 2015-C33, Commercial Mortgage Pass-Through Certificates, Series 2015-C33
JPM2015-JP1	JPMCC Commercial Mortgage Securities Trust 2015-JP1, Commercial Mortgage Pass-Through Certificates, Series 2015-JP1
JPM2016-C1	JPMBB Commercial Mortgage Securities Trust 2016-C1, Commercial Mortgage Pass-Through Certificates, Series 2016-C1
JPM2016-C25	JPMBB Commercial Mortgage Securities Trust 2016-C25, Commercial Mortgage Pass-Through Certificates, Series 2016-C25
JPMC 12-CIBX	J.P. Morgan Chase Commercial Mortgage Securities Trust 2012-CIBX, Commercial Mortgage Pass-Through Certificates, Series 2012-CIBX
JPMC 12-LC9	J.P. Morgan Chase Commercial Mortgage Securities Trust 2012-LC9, Commercial Mortgage Pass-Through Certificates, Series 2012-LC9
JPMC 13-LC11	J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-LC11, Commercial Mortgage Pass-Through Certificates, Series 2013-LC11
JPMC 2012-C6	J.P. Morgan Chase Commercial Mortgage Securities Trust 2012-C6, Commercial Mortgage Pass-Through Certificates, Series 2012-C6
JPMC 2012-C8	J.P. Morgan Chase Commercial Mortgage Securities Trust 2012-C8, Commercial Mortgage Pass-Through Certificates, Series 2012-C8
JPMC 2013-C10	J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-C10, Commercial Mortgage Pass-Through Certificates, Series 2013-C10
JPMC2013-C17	JPMBB Commercial Mortgage Securities Trust 2013-C17, Commercial Mortgage Pass-Through Certificates, Series 2013-C17
JPMC2015-HGLR	Houston Galleria Mall Trust 2015-HGLR, Commercial Mortgage Securities Pass-Through Certificates, Series 2015-HGLR
JPMC2015-WPG	J.P. Morgan Chase Commercial Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-WPG
JPMC 2016-CSTL	Shops at Crystals Trust 2016-CSTL, Commercial Mortgage Pass-Through Certificates, Series 2016-CSTL
JPMC2016-HHV	Hilton USA Trust 2016-HHV Commercial Mortgage Pass-Through Certificates, Series 2016-HHV
JPMC2016-IP2	JPMCC Commercial Mortgage Securities Trust 2016-IP2 Commercial Mortgage Pass-Through Certificates Series 2016-IP2
JPMC2016-IP4	JPMCC Commercial Mortgage Securities Trust 2016-IP4 Commercial Mortgage Pass-Through Certificates, Series 2016-IP4
JPMC2016-NINE	J.P. Morgan Chase Commercial Mortgage Securities Trust 2016-NINE Commercial Mortgage Pass-Through Certificates, Series 2016-NINE
JPMC2016-PLSD	Palms Center Trust 2016-PLSD Commercial Mortgage Pass-Through Certificates, Series 2016-PLSD
JPMC2017-245P	245 Park Avenue Trust 2017-245P Commercial Mortgage Pass-Through Certificates, Series 2017-245P
JPMC2017-JP5	JPMCC Commercial Mortgage Securities Trust 2017-JP5, Commercial Mortgage Pass-Through Certificates, Series 2017-JP5

JPMC2017-JP6	JPMCC Commercial Mortgage Securities Trust 2017-JP6, Commercial Mortgage Pass-Through Certificates, Series 2017-JP6
JPMC2017-JP7	JPMCC Commercial Mortgage Securities Trust 2017-JP7 Commercial Mortgage Pass-Through Certificates, Series 2017-JP7
JPMC2018-AON	J.P. Morgan Chase Commercial Mortgage Securities Trust 2018-AON, Commercial Mortgage Pass-Through Certificates, Series 2018-AON
JPMC2018-AVM	Aventura Mall Trust 2018-AVM Commercial Mortgage Pass-Through Certificates, Series 2018-AVM
JPMC2018-WPT	J.P. Morgan Chase Commercial Mortgage Securities Trust 2018-WPT Commercial Mortgage Pass-Through Certificates, Series 2018-WPT
JPMC2019-COR4	JPMCC Commercial Mortgage Securities Trust 2019-COR4, Commercial Mortgage Pass-Through Certificates, Series 2019-COR4
JPMC2019-COR5	JPMCC Commercial Mortgage Securities Trust 2019-COR5 Commercial Mortgage Pass-Through Certificates, Series 2019-COR5
JPMC2019-COR6	JPMDB Commercial Mortgage Securities Trust 2019-COR6 Commercial Mortgage Pass-Through Certificates Series 2019-COR6
JPMC2019-ICON	J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-ICON, Commercial Mortgage Pass-Through Certificates, Series 2019-ICON
JPMC2019-ICON UES	J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-ICON UES, Commercial Mortgage Pass-Through Certificates, Series 2019-ICON UES
JPMC2019-OSB	J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-OSB Commercial Mortgage Pass-Through Certificates, Series 2019-OSB
JPMC2020-LOOP	J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-LOOP Commercial Mortgage Pass-Through Certificates, Series 2020-LOOP
JPMC2020-NNN	J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-NNN, Commercial Mortgage Pass-Through Certificates, Series 2020-NNN
JPMC2021-1MEM	J.P. Morgan Chase Commercial Mortgage Securities Trust 2021-1MEM Commercial Mortgage Pass-Through Certificates, Series 2021-1MEM
JPMC2021-410T	J.P. Morgan Chase Commercial Mortgage Securities Trust 2021-410T Commercial Mortgage Pass-Through Certificates, Series 2021-410T
JPMC2022-OP0	J.P. Morgan Chase Commercial Mortgage Securities Trust 2022-OP0 Commercial Mortgage Pass-Through Certificates, Series 2022-OP0
JPMCC2016-JP3	JPMCC Commercial Mortgage Securities Trust 2016-JP3 Commercial Mortgage Pass-Through Certificates, Series 2016-JP3
JPM CHAS 2005-CIBC11	J.P. Morgan Chase Commercial Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2005-CIBC11
JPM CHAS 2007-CIBC20	J.P. Morgan Chase Commercial Mortgage Securities Trust, Commercial Mortgage Pass-Through Certificates, Series 2007-CIBC20
JPMDB2016-C2	JPMDB Commercial Mortgage Securities Trust 2016-C2 Commercial Mortgage Pass-Through Certificates, Series 2016-C2
JPMDB2016-C4	JPMDB Commercial Mortgage Securities Trust 2016-C4 Commercial Mortgage Pass-Through Certificates, Series 2016-C4
JPMDB 2017-C5	JPMDB Commercial Mortgage Securities Trust 2017-C5, Commercial Mortgage Pass-Through Certificates, Series 2017-C5
JPMDB2017-C7	JPMDB Commercial Mortgage Securities Trust 2017-C7 Commercial Mortgage Pass-Through Certificates Series 2017-C7
JPMDB2018-C8	JPMDB Commercial Mortgage Securities Trust 2018-C8, Commercial Mortgage Pass-Through Certificates, Series 2018-C8
JPMDB2020-COR7	JPMDB Commercial Mortgage Securities Trust 2020-COR7, Commercial Mortgage Pass-Through Certificates, Series 2020-COR7
KREST2021-CHIP	KREST Commercial Mortgage Securities Trust 2021-CHIP, Commercial Mortgage Pass-Through Certificates, Series 2021-CHIP
LCCM2017-LC26	LCCM 2017-LC26 Mortgage Trust Commercial Mortgage Pass Through Certificates, Series 2017-LC26
LSTAR2017-5	LSTAR Commercial Mortgage Trust 2017-5, Commercial Mortgage Pass-Through Certificates, Series 2017-5
MAD2015-1IMD	MAD 2015-1IMD Mortgage Trust, Commercial Mortgage Pass-Through Certificates
MF12021-W10X	MF1 2021-W10X Commercial Mortgage Pass-Through Certificates, Series 2021-W10X
MIRA2023-MILE	MIRA Trust 2023-MILE Commercial Mortgage Pass-Through Certificates, Series 2023-MILE
MKT2020-525M	MKT 2020-525M Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2020-525M
ML-CFC 2007-5	ML-CFC Commercial Mortgage Trust 2007-5, Commercial Mortgage Pass-Through Certificates, Series 2007-5
ML-CFC 2007-9	ML-CFC Commercial Mortgage Trust 2007-9, Commercial Mortgage Pass-Through Certificates, Series 2007-9
MLMT 2005-LC1	Merrill Lynch Mortgage Investors, Inc., Commercial Mortgage Pass-Through Certificates, Series 2005-LC1
MOFT2020-B6	MOFT 2020-B6 Mortgage Trust Commercial Mortgage Pass-Through Certificates
MORGAN 2006-TOP21	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-TOP21
MRC2019-PARK	MRC2019-PARK Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-PARK
MS 2007-TOP25	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2007-TOP25
MSBAM 12-C6	Morgan Stanley Bank of America Merrill Lynch Trust 2012-C6, Commercial Mortgage Pass-Through Certificates, Series 2012-C6
MSBAM 13-C8	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C8, Commercial Mortgage Pass-Through Certificates, Series 2013-C8
MSBAM 13-C9	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C9, Commercial Mortgage Pass-Through Certificates, Series 2013-C9
MSBAM14-C19	Morgan Stanley Bank of America Merrill Lynch Trust 2014-C19, Commercial Mortgage Pass-Through Certificates, Series 2014-C19
MSBAM15-C23	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C23, Commercial Mortgage Pass-Through Certificates, Series 2015-C23
MSBAM 2013-C10	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C10, Commercial Mortgage Pass-Through Certificates, Series 2013-C10
MSBAM2013-C11	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C11, Commercial Mortgage Pass-Through Certificates, Series 2013-C11
MSBAM2013-C12	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C12, Commercial Mortgage Pass-Through Certificates, Series 2013-C12
MSBAM2013-C13	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C13, Commercial Mortgage Pass-Through Certificates, Series 2013-C13
MSBAM2014-C14	Morgan Stanley Bank of America Merrill Lynch Trust 2014-C14, Commercial Mortgage Pass-Through Certificates, Series 2014-C14
MSBAM2015-C20	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C20, Commercial Mortgage Pass-Through Certificates, Series 2015-C20
MSBAM2015-C21	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C21, Commercial Mortgage Pass-Through Certificates, Series 2015-C21
MSBAM2015-C22	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C22, Commercial Mortgage Pass-Through Certificates, Series 2015-C22
MSBAM2015-C24	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C24, Commercial Mortgage Pass-Through Certificates, Series 2015-C24
MSBAM2015-C26	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C26, Commercial Mortgage Pass-Through Certificates, Series 2015-C26
MSBAM2015-C27	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C27, Commercial Mortgage Pass-Through Certificates, Series 2015-C27
MSBAM2016-C28	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C28, Commercial Mortgage Pass-Through Certificates, Series 2016-C28
MSBAM2016-C29	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C29, Commercial Mortgage Pass-Through Certificates Series 2016-C29
MSBAM2016-C30	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C30 Commercial Mortgage Pass-Through Certificates, Series 2016-C30
MSBAM2016-C31	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C31, Commercial Mortgage Pass-Through Certificates, Series 2016-C31
MSBAM2016-C32	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C32, Commercial Mortgage Pass-Through Certificates, Series 2016-C32
MSBAM 2017-C33	Morgan Stanley Bank of America Merrill Lynch Trust 2017-C33, Commercial Mortgage Pass-Through Certificates Series 2017-C33
MSBAM2017-C34	Morgan Stanley Bank of America Merrill Lynch Trust 2017-C34, Commercial Mortgage Pass-Through Certificates, Series 2017-C34
MSBAM2025-5C1	Morgan Stanley Bank of America Merrill Lynch Trust 2025-5C1, Commercial Mortgage Pass-Through Certificates, Series 2025-5C1
MSBAM2025-5C2	Morgan Stanley Bank of America Merrill Lynch Trust 2025-5C2, Commercial Mortgage Pass-Through Certificates, Series 2025-5C2
MSBAM2025-C35	Morgan Stanley Bank of America Merrill Lynch Trust 2025-C35, Commercial Mortgage Pass-Through Certificates, Series 2025-C35
MSC 2006-HQ10	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-HQ10
MSC2015-MS1	Morgan Stanley Capital I Trust 2015-MS1, Commercial Mortgage Pass-Through Certificates, Series 2015-MS1

MSC2016-BNK2	Morgan Stanley Capital I Trust 2016-BNK2, Commercial Mortgage Pass-Through Certificates, Series 2016-BNK2
MSC2017-BNK5	BANK 2017-BNK5 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK5
MSC2017-BNK8	BANK 2017-BNK8 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK8
MSC2017-H1	Morgan Stanley Capital I Trust 2017-H1 Commercial Mortgage Pass-Through Certificates, Series 2017-H1
MSC2017-HR2	Morgan Stanley Capital I Trust 2017-HR2 Commercial Mortgage Pass-Through Certificates, Series 2017-HR2
MSC2018-BNK14	BANK 2018-BNK14 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK14
MSC2018-H3	Morgan Stanley Capital I Trust 2018-H3, Commercial Mortgage Pass-Through Certificates, Series 2018-H3
MSC2018-H4	Morgan Stanley Capital I Trust 2018-H4 Commercial Mortgage Pass-Through Certificates, Series 2018-H4
MSC2018-L1	Morgan Stanley Capital I Trust 2018-L1 Commercial Mortgage Pass-Through Certificates, Series 2018-L1
MSC2019-BNK17	BANK 2019-BNK17 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK17
MSC2019-BNK20	BANK 2019-BNK20 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK20
MSC2019-H6	Morgan Stanley Capital I Trust 2019-H6 Commercial Mortgage Pass-Through Certificates, Series 2019-H6
MSC2019-H7	Morgan Stanley Capital I Trust 2019-H7 Commercial Mortgage Pass-Through Certificates, Series 2019-H7
MSC2019-L2	Morgan Stanley Capital I Trust 2019-L2 Commercial Mortgage Pass-Through Certificates, Series 2019-L2
MSC2019-L3	Morgan Stanley Capital I Trust 2019-L3 Commercial Mortgage Pass-Through Certificates, Series 2019-L3
MSC2020-HR8	Morgan Stanley Capital I Trust 2020-HR8 Commercial Mortgage Pass-Through Certificates, Series 2020-HR8
MSC2020-L4	Morgan Stanley Capital I Trust 2020-L4 Commercial Mortgage Pass-Through Certificates, Series 2020-L4
MSC2021-L5	Morgan Stanley Capital I Trust 2021-L5 Commercial Mortgage Pass-Through Certificates Series 2021-L5
MSC2021-L6	Morgan Stanley Capital I Trust 2021-L6 Commercial Mortgage Pass-Through Certificates Series 2021-L6
MSC2021-L7	Morgan Stanley Capital I Trust 2021-L7 Commercial Mortgage Pass-Through Certificates Series 2021-L7
MSC2021-PLZA	Morgan Stanley Capital I Trust 2021-PLZA Commercial Mortgage Pass-Through Certificates, Series 2021-PLZA
MSC2022-L8	Morgan Stanley Capital I Trust 2022-L8 Commercial Mortgage Pass-Through Certificates, Series 2022-L8
MSCC 11-C3	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2011-C3
MSCC 12-C4	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2012-C4
MSCFG2015-ALDR	MSCC Trust 2015-ALDR Commercial Mortgage Pass-Through Certificates, Series 2015-ALDR
MSCI 2007-Q16	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2007-Q16
MSCI2015-UBS8	Morgan Stanley Capital I Trust 2015-UBS8, Commercial Mortgage Pass-Through Certificates, Series 2015-UBS8
MSCI2016-PSQ	Morgan Stanley Capital I Trust 2016-PSQ Commercial Mortgage Pass-Through Certificates, Series 2016-PSQ
MSCI2016-UBS11	Morgan Stanley Capital I Trust 2016-UBS11 Commercial Mortgage Pass-Through Certificates Series 2016-UBS11
MSCI2016-UBS12	Morgan Stanley Capital I Trust 2016-UBS12, Commercial Mortgage Pass-Through Certificates Series 2016-UBS12
MSCI2016-UBS9	Morgan Stanley Capital I Trust 2016-UBS9 Commercial Mortgage Pass-Through Certificates, Series 2016-UBS9
MSCI2017-237P	MSG Trust 2017-237P, Commercial Mortgage Pass-Through Certificates, Series 2017-237P
MSCI2017-CC	BXP Trust 2017-CC Commercial Mortgage Pass-Through Certificates, Series 2017-CC
MSCI2017-GM	BXP Trust 2017-GM, Commercial Mortgage Pass-Through Certificates, Series 2017-GM
MSCI2018-MP	Morgan Stanley Capital I Trust 2018-MP Commercial Mortgage Pass-Through Certificates, Series 2018-MP
MSCI2020-CNP	Morgan Stanley Capital I Trust 2020-CNP Commercial Mortgage Pass-Through Certificates, Series 2020-CNP
MSWF2023-1	MSWF Commercial Mortgage Trust 2023-1 Commercial Mortgage Pass-Through Certificates Series 2023-1
MSWF2023-2	MSWF Commercial Mortgage Trust 2023-2 Commercial Mortgage Pass-Through Certificates, Series 2023-2
NCMS2017-75B	Natisis Commercial Mortgage Securities Trust 2017-75B Commercial Mortgage Pass-Through Certificates, Series 2017-75B
NCMS2018-ALXA	Natisis Commercial Mortgage Securities Trust 2018-ALXA, Commercial Mortgage Pass-Through Certificates, Series 2018-ALXA
NCMS2018-OSS	Natisis Commercial Mortgage Securities Trust 2018-OSS Commercial Mortgage Pass-Through Certificates Series 2018-OSS
NCMS2018-TSQ	20 Times Square Trust 2018-20TS, Commercial Mortgage Pass-Through Certificates, Series 2018-20TS
NCMS2019-10K	Natisis Commercial Mortgage Securities Trust 2019-10K, Commercial Mortgage Pass-Through Certificates, Series 2019-10K
NCMS2019-FAME	Natisis Commercial Mortgage Securities Trust 2019-FAME, Commercial Mortgage Pass-Through Certificates, Series 2019-FAME
NCMS2019-LVL	Natisis Commercial Mortgage Securities Trust 2019-LVL, Commercial Mortgage Pass-Through Certificates, Series 2019-LVL
NCMS2019-NEMA	Natisis Commercial Mortgage Securities Trust 2019-NEMA, Commercial Mortgage Pass-Through Certificates, Series 2019-NEMA
NJ2023-GSP	NJ Trust 2023-GSP Commercial Mortgage Pass-Through Certificates, Series 2023-GSP
RIDE2025-SHRE	RIDE 2025-SHRE, Commercial Mortgage Pass-Through Certificates, Series 2025-SHRE
ROCK2024-CNTR	ROCK Trust 2024-CNTR Commercial Mortgage Pass-Through Certificates, Series 2024-CNTR
SCOTT2023-SFS	SCOTT Trust 2023-SFS Commercial Mortgage Pass-Through Certificates, Series 2023-SFS
SGCMS2016-C5	SG Commercial Mortgage Securities LLC Commercial Mortgage Pass-Through Certificates, Series 2016-C5
SGCMS2019-787E	SG Commercial Mortgage Securities Trust 2019-787E, Commercial Mortgage Pass-Through Certificates, Series 2019-787E
SGCMS2019-PREZ	SG Commercial Mortgage Securities Trust 2019-PREZ, Commercial Mortgage Pass-Through Certificates, Series 2019-PREZ
SGCMS2020-COVE	SG Commercial Mortgage Securities Trust 2020-COVE, Commercial Mortgage Pass-Through Certificates, Series 2020-COVE
SUM2022-BVUE	SUMIT 2022-BVUE Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2022-BVUE
SYCA2025-WAG	SYCA Commercial Mortgage Trust 2025-WAG, Commercial Mortgage Pass-Through Certificates, Series 2025-WAG
TYSN2023-CRNR	TYSN 2023-CRNR Mortgage Trust Commercial Mortgage Pass-Through Certificates
UBS2017-C1	UBS Commercial Mortgage Trust 2017-C1 Commercial Mortgage Pass-Through Certificates Series 2017-C1
UBS2017-C2	UBS Commercial Mortgage Trust 2017-C2 Commercial Mortgage Pass-Through Certificates Series 2017-C2
UBS2017-C3	UBS Commercial Mortgage Trust 2017-C3 Commercial Mortgage Pass-Through Certificates Series 2017-C3
UBS2017-C4	UBS Commercial Mortgage Trust 2017-C4 Commercial Mortgage Pass-Through Certificates Series 2017-C4
UBS2017-C5	UBS Commercial Mortgage Trust 2017-C5 Commercial Mortgage Pass-Through Certificates Series 2017-C5
UBS2017-C6	UBS Commercial Mortgage Trust 2017-C6 Commercial Mortgage Pass-Through Certificates Series 2017-C6
UBS2017-C7	UBS Commercial Mortgage Trust 2017-C7 Commercial Mortgage Pass-Through Certificates Series 2017-C7
UBS 2018-C10	UBS Commercial Mortgage Trust 2018-C10 Commercial Mortgage Pass-Through Certificates Series 2018-C10
UBS2018-C11	UBS Commercial Mortgage Trust 2018-C11 Commercial Mortgage Pass-Through Certificates Series 2018-C11
UBS2018-C12	UBS Commercial Mortgage Trust 2018-C12 Commercial Mortgage Pass-Through Certificates Series 2018-C12
UBS2018-C13	UBS Commercial Mortgage Trust 2018-C13 Commercial Mortgage Pass-Through Certificates Series 2018-C13
UBS2018-C14	UBS Commercial Mortgage Trust 2018-C14 Commercial Mortgage Pass-Through Certificates Series 2018-C14
UBS2018-C15	UBS Commercial Mortgage Trust 2018-C15 Commercial Mortgage Pass-Through Certificates Series 2018-C15
UBS2018-C8	UBS Commercial Mortgage Trust 2018-C8 Commercial Mortgage Pass-Through Certificates Series 2018-C8
UBS2018-C9	UBS Commercial Mortgage Trust 2018-C9 Commercial Mortgage Pass-Through Certificates Series 2018-C9
UBS2019-C16	UBS Commercial Mortgage Trust 2019-C16 Commercial Mortgage Pass-Through Certificates Series 2019-C16
UBS2019-C17	UBS Commercial Mortgage Trust 2019-C17 Commercial Mortgage Pass-Through Certificates Series 2019-C17
UBS2019-C18	UBS Commercial Mortgage Trust 2019-C18, Commercial Mortgage Pass-Through Certificates Series 2019-C18
VNDO TRUST 2016-350P	VNDO Trust 2016-350P Commercial Mortgage Pass-Through Certificates, Series 2016-350P
VRTX2025-HQ	VRTX Trust 2025-HQ Commercial Mortgage Pass-Through Certificates, Series 2025-HQ
WACHOVIA 2006-C23	Wachovia Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-C23

	Series 2021-C59
WFCM2021-C60	Wells Fargo Commercial Mortgage Trust 2021-C60 Commercial Mortgage Pass-Through Certificates, Series 2021-C60
WFCM2021-C61	Wells Fargo Commercial Mortgage Trust 2021-C61 Commercial Mortgage Pass-Through Certificates, Series 2021-C61
WFCM2022-C62	Wells Fargo Commercial Mortgage Trust 2022-C62 Commercial Mortgage Pass-Through Certificates, Series 2022-C62
WFCM2022-JS2	Wells Fargo Commercial Mortgage Trust 2022-JS2 Commercial Mortgage Pass-Through Certificates, Series 2022-JS2
WFCM2023-5YR1	BANKS 2023-5YR1 Commercial Mortgage Pass-Through Certificates, Series 2023-5YR1
WFCM2023-ONLP	OAKST Commercial Mortgage Trust 2023-NLP Commercial Mortgage Pass-Through Certificates, Series 2023-NLP
WFCM2024-SC1	Wells Fargo Commercial Mortgage Trust 2024-SC1 Commercial Mortgage Pass-Through Certificates, Series 2024-SC1
WFCM2024-SC2	Wells Fargo Commercial Mortgage Trust 2024-SC2 Commercial Mortgage Pass-Through Certificates Series 2024-SC2
WFCM2024-BPRC	Wells Fargo Commercial Mortgage Trust 2024-BPRC, Commercial Mortgage Pass-Through Certificates, Series 2024-BPRC
WFCM2024-C63	Wells Fargo Commercial Mortgage Trust 2024-C63, Commercial Mortgage Pass-Through Certificates, Series 2024-C63
WFCM2025-SC3	Wells Fargo Commercial Mortgage Trust 2025-SC3, Commercial Mortgage Pass-Through Certificates, Series 2025-SC3
WFCM2025-SC4	Wells Fargo Commercial Mortgage Trust 2025-SC4, Commercial Mortgage Pass-Through Certificates, Series 2025-SC4
WFCM2025-SC5	Wells Fargo Commercial Mortgage Trust 2025-SC5, Commercial Mortgage Pass-Through Certificates, Series 2025-SC5
WFCM2025-SC6	Wells Fargo Commercial Mortgage Trust 2025-SC6, Commercial Mortgage Pass-Through Certificates, Series 2025-SC6
WFCM2025-SC7	Wells Fargo Commercial Mortgage Trust 2025-SC7, Commercial Mortgage Pass-Through Certificates, Series 2025-SC7
WFCM2025-C64	Wells Fargo Commercial Mortgage Trust 2025-C64, Commercial Mortgage Pass-Through Certificates, Series 2025-C64
WFCM2025-C65	Wells Fargo Commercial Mortgage Trust 2025-C65, Commercial Mortgage Pass-Through Certificates, Series 2025-C65
WFCMT 2013-LC12	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-LC12
WFRBS 11-C5	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2011-C5
WFRBS 12-C10	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2012-C10
WFRBS 12-C9	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2012-C9
WFRBS 13-C11	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C11
WFRBS 13-C13	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C13
WFRBS 13-C14	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C14
WFRBS2013-C15	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C15
WFRBS2013-C16	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C16
WFRBS2013-C18	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C18
WFRBS2014-C20	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C20
WFRBS2014-C21	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C21
WFRBS2014-C22	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C22
WFRBS2014-C23	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C23
WFRBS2014-C24	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C24
WFRBS2014-C25	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C25
WFRBS2014-LC14	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-LC14
WHARF2025-DC	WHARF Commercial Mortgage Trust 2025-DC Commercial Mortgage Pass-Through Certificates, Series 2025-DC

ASSESSMENT OF COMPLIANCE WITH THE APPLICABLE SERVICING CRITERIA
Computershare Corporate Trust - Document Custody Platform

The management ("Management") of the Computershare Corporate Trust division of Computershare Trust Company, National Association (the "Company") is responsible for assessing the Company's compliance with the applicable servicing criteria set forth in Item 1122(d) of Regulation AB of the Securities and Exchange Commission. Management has determined that the servicing criteria are applicable to the servicing platform for the period as follows:

Purchase of corporate trust business. On November 1, 2021, Wells Fargo Bank, N.A. ("Wells Fargo") and certain of its affiliates sold substantially all of its Corporate Trust Services ("CTS") division to the Company, Computershare Delaware Trust Company ("CDTL"), and Computershare Limited ("Computershare Limited") and collectively with the Company and CDTL, "Computershare". Virtually all CTS employees of Wells Fargo, along with most existing CTS systems, technology, and offices transferred to Computershare as part of the sale.

For the Document Custody Platform (defined below) transactions and during the Period (defined below), the Company either (i) served directly in the related document custody services role (collectively, the "Document Custody Platform Role"), or (ii) served as agent for Wells Fargo who remained in the related Document Custody Platform Role. More specifically, since its acquisition of the Wells Fargo CTS business on November 1, 2021, including during the Period, the Company has (i) closed new document custody transactions and (ii) completed the transfer of certain document custody transactions roles from Wells Fargo CTS to Computershare, for which, in each case, during all or a portion of the Period, the Company performed the related Document Custody Platform Role directly (the "Company's Direct Role Transactions"). The Company's Direct Role Transactions comprise a minority of the overall Document Custody Platform transactions for the Period. For a significant majority of the Document Custody Platform transactions, the Company served, during all or a portion of the Period, as agent for Wells Fargo who remained in the related Document Custody Platform Role (the "Company's Agent Role Transactions"). For the Company's Agent Role Transactions, Wells Fargo had not, as of the beginning of the Period, transferred to Computershare the Document Custody Platform Role, and therefore the Company performed, during all or a portion of the Period, virtually all of Wells Fargo's contractual duties for such transactions as its agent. As a result, for the Company's Agent Role Transactions, the Company and Wells Fargo have determined that the Company is a party participating in the servicing function with respect to the Document Custody Platform, and accordingly, the Company is taking responsibility for assessing its compliance with the Applicable Servicing Criteria (defined below) relevant to the servicing activities performed by the Company for the Document Custody Platform, as of and for the twelve months ended December 31, 2025.

Period: As of January 1, 2025 through and including December 31, 2025 (the "Period").

Platform: The platform consists of residential mortgage-backed securities ("RMBS") transactions, commercial mortgage-backed securities ("CMBS") transactions, and other asset-backed securities ("ABS") transactions, in each case for which the Company provides document custody services, either directly in the related role for such services or as the agent of the party performing such services, and for which either (a) some or all of the issued securities for such RMBS, CMBS, and ABS transactions were publicly offered on or after January 1, 2006 pursuant to a registration statement delivered under the Securities Act of 1933, as amended, or (b) the issued securities for such RMBS, CMBS, and ABS transactions were privately offered on or after January 1, 2006 pursuant to an exemption from registration and the Company (and/or the party for whom it acts as agent) has an obligation under the transaction agreements to deliver an assessment of compliance with the applicable servicing criteria under Item 1122(d) of Regulation AB, provided however that, the platform excludes any transactions for which the offered securities were issued, sponsored and/or guaranteed by any agency or instrumentality of the U.S. government or any government-sponsored entity, other than certain RMBS transactions for which the offered securities were issued, sponsored and/or guaranteed by the Federal Deposit Insurance Corporation (the "Document Custody Platform"). Appendix A identifies the individual transactions defined by Management as constituting the Document Custody Platform for the Period.

Applicable Servicing Criteria: Management has determined that the servicing criteria set forth in Item 1122(d)(1)(ii), 1122(d)(1)(iv), 1122(d)(4)(i), 1122(d)(4)(ii), 1122(d)(4)(iii) and 1122(d)(4)(iv) are applicable to the Company's obligations, or the obligations of the party for whom the Company ultimately acts as agent, in either case under the related transaction agreements with respect to the Document Custody Platform for the Period (as applicable, the "Company's Obligations"); provided however that, with respect to the Document Custody Platform, servicing criterion 1122(d)(4)(iii) is applicable only as it relates to the Company's obligation to review and maintain the required loan documents related to any additions, removals or substitutions in accordance with the transaction agreements (the "Applicable Servicing Criteria"). Management has determined that all other servicing criteria set forth in Item 1122(d) are not applicable to the Company's Obligations with respect to the Document Custody Platform for the Period.

Third parties classified as vendors: With respect to servicing criteria 1122(d)(4)(i) and 1122(d)(4)(ii), for certain ABS transactions included in the Document Custody Platform, the Company has engaged a vendor to handle certain aspects of maintaining and safeguarding pool assets, the security thereon, and related documents as required by such servicing criteria. Management has determined that the vendor is not considered a "servicer" as defined in Item 1101(j) of Regulation AB, and Management elects to take responsibility for assessing compliance with the portion of servicing criteria 1122(d)(4)(i) and 1122(d)(4)(ii) applicable to this vendor as permitted by the SEC's *Compliance and Disclosure Interpretation ("C&D I") 200.06, Vendors Engaged by Servicers ("C&D I 200.06")*. The Company has policies and procedures in place designed to provide reasonable assurance that the vendor's activities comply in all material respects with the servicing criteria applicable to the vendor. Management is solely responsible for determining that the Company meets the SEC requirements to apply *C&D I 200.06* for the vendor and the related servicing criteria.

With respect to the Document Custody Platform and the Period, Management provides the following assessment of the Company's compliance with respect to the Applicable Servicing Criteria:

1. Management is responsible for assessing the Company's compliance with the Applicable Servicing Criteria.
2. Management has assessed the Company's compliance with the Applicable Servicing Criteria, including the servicing criteria for which compliance is determined based on C&D 200.06 as described above. In performing this assessment, Management used the criteria set forth by the Securities and Exchange Commission in paragraph (d) of Item 1122 of Regulation AB.
3. With respect to Applicable Servicing Criterion 1122(d)(4)(iii), Management has determined that there were no activities performed during the Period with respect to the Document Custody Platform, because there were no occurrences of events that would require the Company to perform such activities.
4. Based on such assessment for the Period, the Company has complied in all material respects with the Applicable Servicing Criteria for the Period.

PricewaterhouseCoopers LLP, an independent registered public accounting firm, has issued an attestation report with respect to Management's assessment of the Company's compliance with the Applicable Servicing Criteria for the Period.

Computershare Trust Company, National Association

By: /s/ Laddy Keomaphone-Tran
Laddy Keomaphone-Tran
Title: Senior Vice President
Date: February 18, 2026

Appendix A to the Company's Assessment of Compliance with the Applicable Servicing Criteria

Document Custody Platform Transactions	
Deal Key	Long Name
36502021-PF1	3650R 2021-PF1 Commercial Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2021-PF1
3650R2022-PF2	3650R 2022-PF2 Commercial Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2022-PF2
ABFC 2006-HE1	ABFC 2006-HE1 Trust Asset-Backed Funding Corporation Asset-Backed Certificates, Series 2006-HE1
ABFC 2006-OPT1	ABFC 2006-OPT1 Trust Asset-Backed Funding Corporation Asset-Backed Certificates, Series 2006-OPT1
ABFC 2006-OPT2	ABFC 2006-OPT2 Trust Asset-Backed Funding Corporation Asset-Backed Certificates, Series 2006-OPT2
ABFC 2006-OPT3	ABFC 2006-OPT3 Trust Asset-Backed Funding Corporation Asset-Backed Certificates, Series 2006-OPT3
ABFC 2007-WMC1	ABFC 2007-WMC1 Trust Asset-Backed Funding Corporation Asset-Backed Certificates, Series 2007-WMC1
ABSC2006-HE3	Asset Backed Securities Corporation Home Equity Loan Trust, Series OOMC 2006-HE3 Asset-Backed Pass-Through Certificates, Series OOMC 2006-HE3
ABSC2006-HE5	Asset Backed Securities Corporation Home Equity Loan Trust, Series OOMC 2006-HE5 Asset-Backed Pass-Through Certificates, Series OOMC 2006-HE5
ACE 2006-ASAP1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-ASAP1 Asset-Backed Pass-Through Certificates
ACE 2006-ASAP3	ACE Securities Corp. Home Equity Loan Trust, Series 2006-ASAP3 Asset-Backed Pass-Through Certificates
ACE 2006-ASAP4	ACE Securities Corp. Home Equity Loan Trust, Series 2006-ASAP4 Asset-Backed Pass-Through Certificates
ACE 2006-ASAP5	ACE Securities Corp. Home Equity Loan Trust, Series 2006-ASAP5 Asset-Backed Pass-Through Certificates
ACE 2006-ASAP6	ACE Securities Corp. Home Equity Loan Trust, Series 2006-ASAP6 Asset-Backed Pass-Through Certificates
ACE 2006-ASL1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-ASL1 Asset-Backed Pass-Through Certificates
ACE 2006-CW1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-CW1 Asset-Backed Pass-Through Certificates
ACE 2006-FM1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-FM1 Asset-Backed Pass-Through Certificates
ACE 2006-FM2	ACE Securities Corp. Home Equity Loan Trust, Series 2006-FM2 Asset-Backed Pass-Through Certificates
ACE 2006-HE1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-HE1 Asset-Backed Pass-Through Certificates
ACE 2006-HE3	ACE Securities Corp. Home Equity Loan Trust, Series 2006-HE3 Asset-Backed Pass-Through Certificates
ACE 2006-HE4	ACE Securities Corp. Home Equity Loan Trust, Series 2006-HE4 Asset-Backed Pass-Through Certificates
ACE 2006-OP1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-OP1 Asset-Backed Pass-Through Certificates
ACE 2006-OP2	ACE Securities Corp. Home Equity Loan Trust, Series 2006-OP2 Asset-Backed Pass-Through Certificates
ACE 2006-SD1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-SD1 Asset-Backed Pass-Through Certificates
ACE 2006-SD2	ACE Securities Corp. Home Equity Loan Trust, Series 2006-SD2 Asset-Backed Pass-Through Certificates
ACE 2006-SL1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-SL1 Asset-Backed Pass-Through Certificates
ACE 2006-SL2	ACE Securities Corp. Home Equity Loan Trust, Series 2006-SL2 Asset-Backed Pass-Through Certificates
ACE 2006-SL3	ACE Securities Corp. Home Equity Loan Trust, Series 2006-SL3 Asset-Backed Pass-Through Certificates
ACE 2006-SL4	ACE Securities Corp. Home Equity Loan Trust, Series 2006-SL4 Asset-Backed Pass-Through Certificates
ACE 2007-ASAP1	ACE Securities Corp. Home Equity Loan Trust, Series 2007-ASAP1 Asset-Backed Pass-Through Certificates
ACE 2007-ASAP2	ACE Securities Corp. Home Equity Loan Trust, Series 2007-ASAP2 Asset-Backed Pass-Through Certificates
ACE 2007-ASL1	ACE Securities Corp. Home Equity Loan Trust, Series 2007-ASL1 Asset-Backed Pass-Through Certificates
ACE 2007-D1	ACE Securities Corp. Mortgage Loan Trust, Series 2007-D1
ACE 2007-HE1	ACE Securities Corp. Home Equity Loan Trust, Series 2007-HE1 Asset-Backed Pass-Through Certificates
ACE 2007-HE2	ACE Securities Corp. Home Equity Loan Trust, Series 2007-HE2 Asset-Backed Pass-Through Certificates
ACE 2007-HE3	ACE Securities Corp. Home Equity Loan Trust, Series 2007-HE3 Asset-Backed Pass-Through Certificates
ACE 2007-HE4	ACE Securities Corp. Home Equity Loan Trust, Series 2007-HE4 Asset-Backed Pass-Through Certificates

ACE 2007-HE5	ACE Securities Corp. Home Equity Loan Trust, Series 2007-HE5 Asset- Backed Pass-Through Certificates
ACE 2007-SL2	ACE Securities Corp. Home Equity Loan Trust, Series 2007-SL2 Asset- Backed Pass-Through Certificates
ACE 2007-WM1	ACE Securities Corp. Home Equity Loan Trust, Series 2007-WM1 Asset- Backed Pass-Through Certificates
ACE 2007-WM2	ACE Securities Corp. Home Equity Loan Trust, Series 2007-WM2 Asset- Backed Pass-Through Certificates
AHPT2024-ATRM	Atrium Hotel Portfolio Trust 2024-ATRM Commercial Mortgage Pass- Through Certificates, Series 2024-ATRM
AMMST2021-MF2	Arbor Multifamily Mortgage Securities Trust 2021-MF2 Multifamily Mortgage Pass-Through Certificates Series 2021-MF2
AMMST2021-MF3	Arbor Multifamily Mortgage Securities Trust 2021-MF3 Multifamily Mortgage Pass-Through Certificates Series 2021-MF3
AMMST2022-MF4	Arbor Multifamily Mortgage Securities Trust 2022-MF4 Multifamily Mortgage Pass-Through Certificates Series 2022-MF4
ARMT 2006-2	Adjustable Rate Mortgage Trust 2006-2 Adjustable Rate Mortgage- Backed Pass-Through Certificates, Series 2006-2
ARMT 2006-3	Adjustable Rate Mortgage Trust 2006-3 Adjustable Rate Mortgage- Backed Pass-Through Certificates, Series 2006-3
BAC 2006-4	Banc of America Commercial Mortgage Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-4
BACM2016-UBS10	Bank of America Merrill Lynch Commercial Mortgage Trust 2016-UBS10, Commercial Mortgage Pass-Through Certificates, Series 2016-UBS10
BACM-2017-BNK3	Bank of America Merrill Lynch Commercial Mortgage Trust 2017-BNK3, Commercial Mortgage Pass-Through Certificates, Series 2017-BNK3
BACM2017-BNK6	BANK 2017-BNK6 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK6
BACM2017-BNK9	BANK 2017-BNK9 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK9
BACM2018-BNK12	BANK 2018-BNK12 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK12
BACM2018-BNK15	BANK 2018-BNK15 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK15
BACM2019-BNK18	BANK 2019-BNK18 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK18
BACM2019-BNK21	BANK 2019-BNK21 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK21
BACM2019-BNK24	BANK 2019-BNK24 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK24
BACM2020-BNK27	BANK 2020-BNK27 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK27
BACM2020-BNK30	BANK 2020-BNK30 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK30
BACM2021-BNK33	BANK 2021-BNK33 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK33
BACM2021-BNK36	BANK 2021-BNK36 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK36
BAFC 2006-B	Banc of America Funding Corporation, Mortgage Pass-Through Certificates Series 2006-B
BAFC 2006-C	Banc of America Funding Corporation, Mortgage Pass-Through Certificates Series 2006-C
BAFC 2006-E	Banc of America Funding Corporation, Mortgage Pass-Through Certificates Series 2006-E
BAMLL2016-ISQR	BAMLL Commercial Mortgage Securities Trust 2016-ISQR, Commercial Mortgage Pass-Through Certificates, Series 2016-ISQR
BAMLL2017-AMO	Del Amo Fashion Center Trust 2017-AMO Commercial Mortgage Pass- Through Certificates, Series 2017-AMO
BAMLL2019-LIC	Jackson Park Trust 2019-LIC, Commercial Mortgage Pass-Through Certificates, Series 2019-LIC
BAMLL2020-BHP3	BAMLL Commercial Mortgage Securities Trust 2020-BHP3, Commercial Mortgage Pass-Through Certificates, Series 2020-BHP3
BAMLL2020-BOC	BAMLL Commercial Mortgage Securities Trust 2020-BOC, Commercial Mortgage Pass-Through Certificates, Series 2020-BOC
BAMLL2020-GRCE	Grace Trust 2020-GRCE Commercial Mortgage Pass-Through Certificates, Series 2020-GRCE
BANK2018-BNK11	BANK 2018-BNK11 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK11
BANK2019-BNK23	BANK 2019-BNK23 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK23
BANK2020-BNK26	BANK 2020-BNK26 Commercial Mortgage Pass Through Certificates, Series 2020-BNK26
BANK2020-BNK28	BANK 2020-BNK28 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK28
BANK2020-BNK29	BANK 2020-BNK29 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK29
BANK2021-BNK31	BANK 2021-BNK31 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK31
BANK2021-BNK32	BANK 2021-BNK32 Commercial Mortgage Pass-Through Certificates Series 2021-BNK32
BANK2021-BNK35	BANK 2021-BNK35 Commercial Mortgage Pass Through Certificates, Series 2021-BNK35
BANK2021-BNK38	BANK 2021-BNK38 Commercial Mortgage Pass Through Certificates, Series 2021-BNK38
BANK2022-BNK39	BANK 2022-BNK39 Commercial Mortgage Pass-Through Certificates, Series 2022-BNK39
BANK2022-BNK40	BANK 2022-BNK40 Commercial Mortgage Pass-Through Certificates, Series 2022-BNK40
BANK2022-BNK41	BANK 2022-BNK41 Commercial Mortgage Pass-Through Certificates, Series 2022-BNK41
BANK2022-BNK42	BANK 2022-BNK42 Commercial Mortgage Pass-Through Certificates, Series 2022-BNK42
BANK2022-BNK43	BANK 2022-BNK43 Commercial Mortgage Pass-Through Certificates, Series 2022-BNK43
BANK2022-BNK44	BANK 2022-BNK44 Commercial Mortgage Pass-Through Certificates, Series 2022-BNK44
BANK2023-BNK45	BANK 2023-BNK45 Commercial Mortgage Pass-Through Certificates, Series 2023-BNK45
BANK2023-BNK46	BANK 2023-BNK46 Commercial Mortgage Pass-Through Certificates, Series 2023-BNK46
BANK2024-BNK47	BANK 2024-BNK47 Commercial Mortgage Pass-Through Certificates, Series 2024-BNK47
BANK2024-BNK48	BANK 2024-BNK48 Commercial Mortgage Pass-Through Certificates, Series 2024-BNK48
BANK2025-BNK49	BANK 2025-BNK49 Commercial Mortgage Pass-Through Certificates, Series 2025-BNK49
BANK2025-BNK50	BANK 2025-BNK50 Commercial Mortgage Pass-Through Certificates Series 2025-BNK50
BANK2025-BNK51	BANK2025-BNK51 Commercial Mortgage Pass-Through Certificates, Series 2025-BNK51
BANKS2023-5YR2	BANKS 2023-5YR2 Commercial Mortgage Pass-Through Certificates Series 2023-5YR2
BANKS2023-5YR3	BANKS 2023-5YR3 Commercial Mortgage Pass-Through Certificates, Series 2023-5YR3
BANKS2023-5YR4	BANKS 2023-5YR4 Commercial Mortgage Pass-Through Certificates Series 2023-5YR4
BANKS2024-5YR10	BANKS 2024-5YR10 Commercial Mortgage Pass-Through Certificates, Series 2024-5YR10
BANKS2024-5YR11	BANKS 2024-5YR11 Commercial Mortgage Pass-Through Certificates, Series 2024-5YR11
BANKS2024-5YR12	BANKS 2024-5YR12 Commercial Mortgage Pass-Through Certificates, Series 2024-5YR12
BANKS2024-5YR5	BANKS 2024-5YR5 Commercial Mortgage Pass-Through Certificates, Series 2024-5YR5
BANKS 2024-5YR6	BANKS Trust 2024-5YR6 Commercial Mortgage Pass-Through Certificates Series 2024-5YR6
BANKS2024-5YR7	BANKS 2024-5YR7 Commercial Mortgage Pass-Through Certificates, Series 2024-5YR7
BANKS2024-5YR8	BANKS 2024-5YR8 Commercial Mortgage Pass-Through Certificates, Series 2024-5YR8
BANKS2024-5YR9	BANKS 2024-5YR9 Commercial Mortgage Pass-Through Certificates, Series 2024-5YR9
BANKS2025-5YR13	BANKS 2025-5YR13 Commercial Mortgage Pass-Through Certificates Series 2025-5YR13
BANKS2025-5YR14	BANKS 2025-5YR14 Commercial Mortgage Pass-Through Certificates Series 2025-5YR14
BANKS2025-5YR15	BANKS 2025-5YR15 Commercial Mortgage Pass-Through Certificates, Series 2025-5YR15
BANKS2025-5YR16	BANKS 2025-5YR16 Commercial Mortgage Pass-Through Certificates Series 2025-5YR16
BANKS2025-5YR17	BANKS 2025-5YR17 Commercial Mortgage Pass-Through Certificates Series 2025-5YR17
BANKS2025-5YR18	BANKS 2025-5YR18 Commercial Mortgage Pass-Through Certificates, Series 2025-5YR18
BANKS2025-5YR19	BANKS 2025-5YR19 Commercial Mortgage Pass-Through Certificates, Series 2025-5YR19
BARCBAP2007AA1	BCAP Trust LLC 2007-AA1 Mortgage Pass-Through Certificates Series 2007-AA1
BARCBAP2007AA2	BCAP Trust LLC 2007-AA2 Mortgage Pass-Through Certificates Series 2007-AA2
BARCBAP2007AA3	BCAP Trust LLC 2007-AA3 Mortgage Pass-Through Certificates Series 2007-AA3
BARCBAP2007AA4	BCAP Trust LLC 2007-AA4 Mortgage Pass-Through Certificates Series 2007-AA4
BARCBAP2007AB1	BCAPB Trust LLC 2007-AB1 Mortgage Pass-Through Certificates Series 2007-AB1
BARCSABR2006FR4	Securitized Asset Backed Receivables LLC Trust 2006-FR4 Mortgage Pass-Through Certificates Series 2006-FR4
BARCSABR2006WM4	Securitized Asset Backed Receivables LLC Trust 2006-WM4 Mortgage Pass-Through Certificates Series 2006-WM4
BARCSABR2007BR2	Securitized Asset Backed Receivables LLC Trust 2007-BR2 Mortgage Pass-Through Certificates Series 2007-BR2
BARCSABR2007BR3	Securitized Asset Backed Receivables LLC Trust 2007-BR3 Mortgage Pass-Through Certificates Series 2007-BR3
BARCSABR2007HE1	Securitized Asset Backed Receivables LLC Trust 2007-HE1 Mortgage Pass-Through Certificates Series 2007-HE1
BBCMS2016-ETC	BBCMS 2016-ETC Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-ETC
BBCMS2017-C1	BBCMS Mortgage Trust 2017-C1 Commercial Mortgage Pass-Through Certificates, Series 2017-C1
BBCMS2018-C2	BBCMS Mortgage Trust 2018-C2 Commercial Mortgage Pass-Through Certificates, Series 2018-C2
BBCMS2018-CHRS	BBCMS 2018-CHRS Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-CHRS

BBCMS2019-B3B4	MFTI 2019-B3B4 Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-B3B4
BBCMS2019-C3	BBCMS Mortgage Trust 2019-C3 Commercial Mortgage Pass-Through Certificates, Series 2019-C3
BBCMS2019-C4	BBCMS Mortgage Trust 2019-C4 Commercial Mortgage Pass-Through Certificates, Series 2019-C4
BBCMS2019-C5	BBCMS Mortgage Trust 2019-C5 Commercial Mortgage Pass-Through Certificates, Series 2019-C5
BBCMS2020-C6	BBCMS Mortgage Trust 2020-C6 Commercial Mortgage Pass-Through Certificates, Series 2020-C6
BBCMS2020-C7	BBCMS Mortgage Trust 2020-C7 Commercial Mortgage Pass-Through Certificates, Series 2020-C7
BBCMS2020-C8	BBCMS Mortgage Trust 2020-C8 Commercial Mortgage Pass-Through Certificates, Series 2020-C8
BBCMS2021-C10	BBCMS Mortgage Trust 2021-C10 Commercial Mortgage Pass-Through Certificates Series 2021-C10
BBCMS2021-C11	BBCMS Mortgage Trust 2021-C11 Commercial Mortgage Pass-Through Certificates, Series 2021-C11
BBCMS2021-C12	BBCMS Mortgage Trust 2021-C12 Commercial Mortgage Pass-Through Certificates, Series 2021-C12
BBCMS2021-C9	BBCMS Mortgage Trust 2021-C9 Commercial Mortgage Pass-Through Certificates Series 2021-C9
BBCMS2022-C14	BBCMS Mortgage Trust 2022-C14 Commercial Mortgage Pass-Through Certificates, Series 2022-C14
BBCMS2022-C15	BBCMS Mortgage Trust 2022-C15 Commercial Mortgage Pass-Through Certificates Series 2022-C15
BBCMS2022-C16	BBCMS Mortgage Trust 2022-C16 Commercial Mortgage Pass-Through Certificates Series 2022-C16
BBCMS2022-C17	BBCMS Mortgage Trust 2022-C17 Commercial Mortgage Pass-Through Certificates Series 2022-C17
BBCMS2022-C18	BBCMS Mortgage Trust 2022-C18 Commercial Mortgage Pass-Through Certificates Series 2022-C18
BBCMS2023-SC23	BBCMS Mortgage Trust 2023-SC23 Commercial Mortgage Pass-Through Certificates, Series 2023-SC23
BBCMS2023-C19	BBCMS Mortgage Trust 2023-C19 Commercial Mortgage Pass-Through Certificates Series 2023-C19
BBCMS2023-C20	BBCMS Mortgage Trust 2023-C20 Commercial Mortgage Pass-Through Certificates Series 2023-C20
BBCMS2023-C21	BBCMS Mortgage Trust 2023-C21 Commercial Mortgage Pass-Through Certificates Series 2023-C21
BBCMS2023-C22	BBCMS Mortgage Trust 2023-C22 Commercial Mortgage Pass-Through Certificates Series 2023-C22
BBCMS2024-SC25	BBCMS Mortgage Trust 2024-SC25 Commercial Mortgage Pass-Through Certificates, Series 2024-SC25
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BBCMS2025-SC36	BBCMS Mortgage Trust 2025-SC36 Commercial Mortgage Pass-Through Certificates, Series 2025-SC36
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BEARBSMF2006SL3	Bear Stearns Mortgage Funding Trust 2006-SL3 Mortgage-Backed Certificates, Series 2006-SL3
BEARBSMF2006SL4	Bear Stearns Mortgage Funding Trust 2006-SL4 Mortgage-Backed Certificates, Series 2006-SL4
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BEARBSMF2007SL1	Bear Stearns Mortgage Funding Trust 2007-SL1 Mortgage-Backed Certificates, Series 2007-SL1
BEARBSMF2007SL2	Bear Stearns Mortgage Funding Trust 2007-SL2 Mortgage-Backed Certificates, Series 2007-SL2
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BEARSACO20064	SACO I Trust 2006-4 Mortgage-Backed Certificates, Series 2006-4
BEARSACO20065	SACO I Trust 2006-5 Mortgage-Backed Certificates, Series 2006-5
BEARSACO20066	SACO I Trust 2006-6 Mortgage-Backed Certificates, Series 2006-6
BEARSACO20067	SACO I Trust 2006-7 Mortgage-Backed Certificates, Series 2006-7
BEARSACO20069	SACO I Trust 2006-9 Mortgage-Backed Certificates, Series 2006-9
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BMARK2018-B2	Benchmark 2018-B2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-B2
BMARK2018-B4	Benchmark 2018-B4 Mortgage Trust Commercial Mortgage Pass-Through Certificates
BMARK2018-B5	Benchmark 2018-B5 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-B5
BMARK2018-B7	Benchmark 2018-B7 Mortgage Trust Commercial Mortgage Pass-Through Certificates
BMARK2018-B8	Benchmark 2018-B8 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-B8
BMARK2019-B10	Benchmark 2019-B10 Mortgage Trust Commercial Mortgage Pass-Through Certificates
BMARK2019-B11	Benchmark 2019-B11 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-B11
BMARK2019-B13	Benchmark 2019-B13 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-B13
BMARK2019-B14	Benchmark 2019-B14 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-B14
BMARK2020-B16	Benchmark 2020-B16 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B16
BMARK2020-B17	Benchmark 2020-B17 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B17
BMARK2020-B18	Benchmark 2020-B18 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B18

BMARK2020-B20	Benchmark 2020-B20 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2020-B20
BMARK2020-B21	Benchmark 2020-B21 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2020-B21
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BMARK2020-IG1	Benchmark 2020-IG1 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2020-IG1
BMARK2020-IG2	Benchmark 2020-IG2 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2020-IG2
BMARK2020-IG3	Benchmark 2020-IG3 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2020-IG3
BMARK2021-B24	Benchmark 2021-B24 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2021-B24
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BMARK2021-B26	Benchmark 2021-B26 Mortgage Trust Commercial Mortgage Pass- Through Certificates Series 2021-B26
BMARK2021-B28	Benchmark 2021-B28 Mortgage Trust Commercial Mortgage Pass Through Certificates, Series 2021-B28
BMARK2021-B29	Benchmark 2021-B29 Mortgage Trust Commercial Mortgage Pass Through Certificates, Series 2021-B29
BMARK2021-B30	Benchmark 2021-B30 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2021-B30
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BMARK2022-B34	Benchmark 2022-B34 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2022-B34
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BMARK2022-B37	Benchmark 2022-B37 Mortgage Trust Commercial Mortgage Pass- Through Certificates Series 2022-B37
BMARK2023-B38	Benchmark 2023-B38 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2023-B38
BMARK2023-B39	Benchmark 2023-B39 Mortgage Trust Commercial Mortgage Pass- Through Certificates Series 2023-B39
BMARK2023-B40	Benchmark 2023-B40 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2023-B40
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BMARK2023-V4	Benchmark 2023-V4 Mortgage Trust, Commercial Mortgage Pass- Through Certificates, Series 2023-V4
BMARK2024-V11	Benchmark 2024-V11 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2024-V11
BMARK2024-V12	Benchmark 2024-V12 Mortgage Trust Commercial Mortgage Pass- Through Certificates Series 2024-V12
BMARK2024-V5	Benchmark 2024-V5 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2024-V5
BMARK2024-V6	Benchmark 2024-V6 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2024-V6
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BMARK2024-V9	Benchmark 2024-V9 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2024-V9
BMARK2025-B41	Benchmark 2025-B41 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2025-B41
BMARK2025-V14	Benchmark 2025-V14 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2025-V14
BMARK2025-V15	Benchmark 2025-V15 Mortgage Trust Commercial Mortgage Pass- Through Certificates Series 2025-V15
BMARK2025-V17	Benchmark 2025-V17 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2025-V17
BMARK2025-V18	Benchmark 2025-V18 Mortgage Trust Commercial Mortgage Pass- Through Certificates, Series 2025-V18
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BOAALT 2006-8	Banc of America Alternative Loan Trust 2006-8 Mortgage Pass-Through Certificates Series 2006-8
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BSABS 2006-AC4	Bear Stearns Asset-Backed Securities I Trust 2006-AC4 Asset-Backed Certificates Series 2006-AC4
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BSABS 2006-IM1	Bear Stearns Asset-Backed Securities I Trust 2006-IM1 Asset-Backed Certificates Series 2006-IM1
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BSABS 2006-SD2	Bear Stearns Asset-Backed Securities Trust 2006-SD2 Asset-Backed Certificates Series 2006-SD2
BSABS 2006-SD3	Bear Stearns Asset-Backed Securities Trust 2006-SD3 Asset-Backed Certificates Series 2006-SD3
BSABS 2006-SD4	Bear Stearns Asset-Backed Securities Trust 2006-SD4 Asset-Backed Certificates Series 2006-SD4
BSABS 2006-ST1	Bear Stearns Asset-Backed Securities I Trust 2006-ST1 Asset-Backed Certificates Series 2006-ST1
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BSABS 2007-AC1	Bear Stearns Asset-Backed Securities I Trust 2007-AC1 Asset-Backed Certificates Series 2007-AC1
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BSABS 2007-AC5	Bear Stearns Asset-Backed Securities I Trust 2007-AC5 Asset-Backed Certificates Series 2007-AC5
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BSABS 2007-SD2	Bear Stearns Asset-Backed Securities Trust 2007-SD2 Asset-Backed Certificates Series 2007-SD2
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BSMF 2006-AR2	Bear Stearns Mortgage Funding Trust 2006-AR2, Mortgage Pass-Through Certificates, Series 2006-AR2
BSMF 2006-AR3	Bear Stearns Mortgage Funding Trust 2006-AR3, Mortgage Pass-Through Certificates, Series 2006-AR3
BSMF 2006-AR4	Bear Stearns Mortgage Funding Trust 2006-AR4, Mortgage Pass-Through Certificates, Series 2006-AR4
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BSMF 2007-AR1	Bear Stearns Mortgage Funding Trust 2007-AR1, Mortgage Pass-Through Certificates, Series 2007-AR1
BSMF 2007-AR2	Bear Stearns Mortgage Funding Trust 2007-AR2, Mortgage Pass-Through Certificates, Series 2007-AR2
BSMF 2007-AR3	Bear Stearns Mortgage Funding Trust 2007-AR3, Mortgage Pass-Through Certificates, Series 2007-AR3
BSMF 2007-AR4	Bear Stearns Mortgage Funding Trust 2007-AR4, Mortgage Pass-Through Certificates, Series 2007-AR4
BSMF 2007-AR5	Bear Stearns Mortgage Funding Trust 2007-AR5, Mortgage Pass-Through Certificates, Series 2007-AR5
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BWAY2025-1535	BWAY Trust 2025-1535 Commercial Mortgage Pass-Through Certificates, Series 2025-1535
BX2019-OC11	BX Trust 2019-OC11 Commercial Mortgage Pass-Through Certificates, Series 2019-OC11
BX 2024-BI02	BX Commercial Mortgage Trust 2024-BI02 Commercial Mortgage Pass-Through Certificates, Series 2024-BI02
BX2025-ARIA	BX Trust 2025-ARIA Commercial Mortgage Pass-Through Certificates, Series 2025-ARIA
BX2025-LIFE	BX Trust 2025-LIFE, Commercial Mortgage Pass-Through Certificates, Series 2025-LIFE
BXP2021-601L	BXP Trust 2021-601L Commercial Mortgage Pass-Through Certificates, Series 2021-601L
CAMB2021-CX2	CAMB 2021-CX2 Mortgage Trust Commercial Mortgage Pass-Through Certificates
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CARRINGTON 2006-FRE2	Carrington Mortgage Loan Trust, Series 2006-FRE2 Asset-Backed Pass-Through Certificates
CARRINGTON 2006-OPT1	Carrington Mortgage Loan Trust, Series 2006-OPT1 Asset-Backed Pass-Through Certificates
CARRINGTON 2006-RFC1	Carrington Mortgage Loan Trust, Series 2006-RFC1 Asset-Backed Pass-Through Certificates
CARRINGTON 2007-FRE1	Carrington Mortgage Loan Trust, Series 2007-FRE1 Asset-Backed Pass-Through Certificates
CARRINGTON 2007-RFC1	Carrington Mortgage Loan Trust, Series 2007-RFC1 Asset-Backed Pass-Through Certificates
CARVANA2020P1	Carvana Auto Receivables Trust 2020-P1
CARVANA2021N1	Carvana Auto Receivables Trust 2021-N1
CARVANA2021N2	Carvana Auto Receivables Trust 2021-N2
CARVANA2021N3	Carvana Auto Receivables Trust 2021-N3
CARVANA2021N4	Carvana Auto Receivables Trust 2021-N4
CARVANA2021P1	Carvana Auto Receivables Trust 2021-P1

CARVANA2021P2	Carvana Auto Receivables Trust 2021-P2
CARVANA2021P3	Carvana Auto Receivables Trust 2021-P3
CARVANA2021P4	Carvana Auto Receivables Trust 2021-P4
CARVANA2022N1	Carvana Auto Receivables Trust 2022-N1
CARVANA2022P1	Carvana Auto Receivables Trust 2022-P1
CARVANA2022P2	Carvana Auto Receivables Trust 2022-P2
CARVANA2022P3	Carvana Auto Receivables Trust 2022-P3
CARVANA2023N1	Carvana Auto Receivables Trust 2023-N1
CARVANA2023N2	Carvana Auto Receivables Trust 2023-N2
CARVANA2023N3	Carvana Auto Receivables Trust 2023-N3
CARVANA2023N4	Carvana Auto Receivables Trust 2023-N4
CARVANA2023P1	Carvana Auto Receivables Trust 2023-P1
CARVANA2023P2	Carvana Auto Receivables Trust 2023-P2
CARVANA2023P3	Carvana Auto Receivables Trust 2023-P3
CARVANA2023P4	Carvana Auto Receivables Trust 2023-P4
CARVANA2023P5	Carvana Auto Receivables Trust 2023-P5
CARVANA2024N1	Carvana Auto Receivables Trust 2024-N1
CARVANA2024N2	Carvana Auto Receivables Trust 2024-N2
CARVANA2024N3	Carvana Auto Receivables Trust 2024-N3
CARVANA2024P1	Carvana Auto Receivables Trust 2024-P1
CARVANA2024P2	Carvana Auto Receivables Trust 2024-P2
CARVANA2024P3	Carvana Auto Receivables Trust 2024-P3
CARVANA2024P4	Carvana Auto Receivables Trust 2024-P4
CARVANA2025N1	Carvana Auto Receivables Trust 2025-N1
CARVANA2025P1	Carvana Auto Receivables Trust 2025-P1
CARVANA2025P2	Carvana Auto Receivables Trust 2025-P2
CARVANA2025P3	Carvana Auto Receivables Trust 2025-P3
CARVANA2025P4	Carvana Auto Receivables Trust 2025-P4
CCMT 2007-C6	Citigroup Commercial Mortgage Trust 2007-C6 Commercial Mortgage Pass-Through Certificates Series 2007-C6
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CCUBS2017-C1	CCUBS Commercial Mortgage Trust 2017-C1 Commercial Mortgage Pass-Through Certificates, Series 2017-C1
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CFCRE2016-C6	CFCRE 2016-C6 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C6
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CFCRE2017-C8	CFCRE 2017-C8 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-C8
CGCMT-2015-P1	Citigroup Commercial Mortgage Trust 2015-P1, Commercial Mortgage Pass-Through Certificates, Series 2015-P1
CGCMT2016-GC36	Citigroup Commercial Mortgage Trust 2016-GC36, Commercial Mortgage Pass-Through Certificates, Series 2016-GC36
CGCMT2022-GC48	Citigroup Commercial Mortgage Trust 2022-GC48, Commercial Mortgage Pass-Through Certificates, Series 2022-GC48
CGCMT2023-PRM	Citigroup Commercial Mortgage Trust 2023-PRM3, Commercial Mortgage Pass-Through Certificates, Series 2023-PRM3
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CITICMLTI2007AR4	Citigroup Mortgage Loan Trust Inc. Mortgage Pass-Through Certificates, Series 2007-AR4
CITICMLTI2007AR5	Citigroup Mortgage Loan Trust Inc. Mortgage Pass-Through Certificates, Series 2007-AR5
CITICMLTI2007AR8	Citigroup Mortgage Loan Trust Inc. Mortgage Pass-Through Certificates, Series 2007-AR8
CITICMLTI2007WFHE2	Citigroup Mortgage Loan Trust Inc. Asset-Backed Pass-Through Certificates, Series 2007-WFHE2
CITICMLTI2007WFHE3	Citigroup Mortgage Loan Trust Inc. Asset-Backed Pass-Through Certificates, Series 2007-WFHE3
CITICMLTI2007WFHE4	Citigroup Mortgage Loan Trust Inc. Asset-Backed Pass-Through Certificates, Series 2007-WFHE4
COBALT 2007-C2	COBALT CMBS Commercial Mortgage Trust 2007-C2, Commercial Mortgage Pass-Through Certificates, Series 2007-C2
COLEM2022-HLNE	COLEM 2022-HLNE Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2022-HLNE
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COMM12-CCRE4	COMM 2012-CCRE4 Commercial Mortgage Pass-Through Certificates
COMM12-CCRE5	COMM 2012-CCRE5 Commercial Mortgage Pass-Through Certificates
COMM13-CCRE7	COMM 2013-CCRE7 Commercial Mortgage Pass-Through Certificates
COMM13-LC6	COMM 2013-LC6 Commercial Mortgage Pass-Through Certificates
COMM15-CCRE23	COMM 2015-CCRE23 Commercial Mortgage Pass-Through Certificates
COMM2013-CCRE10	COMM 2013-CCRE10 Commercial Mortgage Pass-Through Certificates
COMM2013-CCRE12	COMM 2013-CCRE12 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE15	COMM 2014-CCRE15 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE16	COMM 2014-CCRE16 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE18	COMM 2014-CCRE18 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE19	COMM 2014-CCRE19 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE20	COMM 2014-CCRE20 Commercial Mortgage Pass-Through Certificates
COMM2014-CCRE21	COMM 2014-CCRE21 Commercial Mortgage Pass-Through Certificates
COMM2014-LC15	COMM 2014-LC15 Commercial Mortgage Pass-Through Certificates
COMM2014-LC17	COMM 2014-LC17 Commercial Mortgage Pass-Through Certificates
COMM2014-UBS3	COMM 2014-UBS3 Commercial Mortgage Pass-Through Certificates
COMM2014-UBS5	COMM 2014-UBS5 Commercial Mortgage Pass-Through Certificates
COMM2014-UBS6	COMM 2014-UBS6 Commercial Mortgage Pass-Through Certificates
COMM2015-CCRE24	COMM 2015-CCRE24 Commercial Mortgage Pass-Through Certificates
COMM2015-CCRE26	COMM 2015-CCRE26 Commercial Mortgage Pass-Through Certificates
COMM2015-CCRE27	COMM 2015-CCRE27 Commercial Mortgage Pass-Through Certificates
COMM2015-DC1	COMM 2015-DC1 Commercial Mortgage Pass-Through Certificates
COMM2015-LC19	COMM 2015-LC19 Commercial Mortgage Pass-Through Certificates
COMM2015-LC23	COMM 2015-LC23 Commercial Mortgage Pass-Through Certificates
COMM2015-PC1	COMM 2015-PC1 Commercial Mortgage Pass-Through Certificates
COMM2016-10FY	Hudson Yards 2016-10FY Mortgage Trust Commercial Mortgage Pass-Through Certificates
COMM2016-667M	COMM 2016-667M Mortgage Trust Commercial Mortgage Pass-Through Certificates
COMM2016-CCRE28	COMM 2016-CCRE28 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-CCRE28
COMM2016-COR1	COMM 2016-COR1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-COR1
COMM2017-COR2	COMM 2017-COR2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-COR2
COMM2018-COR3	COMM 2018-COR3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-COR3
COMM2018-HOME	COMM 2018-HOME Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-HOME
COMM2019-GC44	COMM 2019-GC44 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-GC44
COMM2020-CX	COMM 2020-CX Mortgage Trust Commercial Mortgage Pass-Through Certificates

COMM2022-HC	COMM 2022-HC Mortgage Trust Commercial Mortgage Pass-Through Certificates
CPTS2019-CPT	CPTS 2019-CPT Mortgage Trust Commercial Mortgage Pass-Through Certificates
CSAB 2006-1	CSAB Mortgage-Backed Pass-Through Certificates, Series 2006-1
CSAB 2006-2	CSAB Mortgage-Backed Pass-Through Certificates, Series 2006-2
CSAB 2006-3	CSAB Mortgage-Backed Pass-Through Certificates, Series 2006-3
CSAB 2006-4	CSAB Mortgage-Backed Pass-Through Certificates, Series 2006-4
CSAB 2007-1	CSAB Mortgage-Backed Pass-Through Certificates, Series 2007-1
CSAIL2015-C1	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C1
CSAIL2015-C2	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C2
CSAIL2015-C3	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C3
CSAIL2015-C4	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C4
CSAIL2016-C5	CSAIL 2016-C5 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C5
CSAIL2016-C6	CSAIL 2016-C6 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C6
CSAIL2016-C7	CSAIL 2016-C7 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C7
CSAIL2017-C8	CSAIL 2017-C8 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-C8
CSAIL2017-CX10	CSAIL 2017-CX10 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-CX10
CSAIL2017-CX9	CSAIL 2017-CX9 Commercial Mortgage Trust, Commercial Mortgage Pass Through Certificates, Series 2017-CX9
CSAIL2018-C14	CSAIL 2018-C14 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-C14
CSAIL2018-CX11	CSAIL 2018-CX11 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-CX11
CSAIL 2018-CX12	CSAIL 2018-CX12 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-CX12
CSAIL2019-C15	CSAIL 2019-C15 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C15
CSAIL2019-C16	CSAIL 2019-C16 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C16
CSAIL2019-C17	CSAIL 2019-C17 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C17
CSAIL2019-C18	CSAIL 2019-C18 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C18
CSAIL2020-C19	CSAIL 2020-C19 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2020-C19
CSAIL2021-C20	CSAIL 2021-C20 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2021-C20
CSFB 2006-C4	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2006-C4
CSFB 2007-C2	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2007-C2
CSMC 2006-1	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-1
CSMC 2006-2	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-2
CSMC 2006-3	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-3
CSMC 2006-4	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-4
CSMC 2006-7	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-7
CSMC 2006-8	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-8
CSMC 2006-9	CSMC Mortgage-Backed Pass-Through Certificates, Series 2006-9
CSMC 2007-1	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-1
CSMC 2007-2	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-2
CSMC 2007-3	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-3
CSMC 2007-4	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-4
CSMC 2007-5	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-5
CSMC 2007-6	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-6
CSMC 2007-7	CSMC Mortgage-Backed Pass-Through Certificates, Series 2007-7
CSMC2016-NXSR	CSMC 2016-NXSR Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-NXSR
CSMC2019-UVIL	CSMC 2019-UVIL Commercial Mortgage Pass-Through Certificates, Series 2019-UVIL
CSMC2020-WEST	CSMC 2020-WEST Commercial Mortgage Pass-Through Certificates, Series 2020-WEST
DBALT 2006-AB1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AB1
DBALT 2006-AB2	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AB2
DBALT 2006-AB3	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AB3
DBALT 2006-AB4	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AB4
DBALT 2006-AF1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AF1
DBALT 2006-AR1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AR1
DBALT 2006-AR2	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AR2
DBALT 2006-AR3	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AR3
DBALT 2006-AR4	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AR4
DBALT 2006-AR5	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AR5
DBALT 2006-AR6	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-AR6
DBALT 2006-OA1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2006-OA1
DBALT 2007-1	Deutsche ALT-A Securities Mortgage Pass-Through Certificates Series 2007-1
DBALT 2007-2	Deutsche ALT-A Securities Mortgage Loan Trust, Series 2007-2 Mortgage Pass-Through Certificate
DBALT 2007-3	Deutsche ALT-A Securities Mortgage Pass-Through Certificates Series 2007-3
DBALT 2007-AB1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-AB1
DBALT 2007-AR1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-AR1
DBALT 2007-AR2	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-AR2
DBALT 2007-AR3	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-AR3
DBALT 2007-BAR1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-BAR1
DBALT 2007-OA1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-OA1
DBALT 2007-OA2	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-OA2
DBALT 2007-OA3	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-OA3
DBALT 2007-OA4	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-OA4
DBALT 2007-OA5	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-OA5
DBALT 2007-RAMP1	Deutsche ALT-A Securities, Inc., Mortgage Pass-Through Certificates, Series 2007-RAMP1
DBGS2018-C1	DBGS 2018-C1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-C1
DBJPM2016-C1	DBJPM 2016-C1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C1
DBJPM2016-C3	DBJPM 2016-C3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C3
DBJPM2017-C6	DBJPM 2017-C6 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-C6
DBJPM2020-C9	DBJPM 2020-C9 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-C9
DBUBS 11-LC3	DBUBS 2011-LC3 Commercial Mortgage Pass-Through Certificates
DBWAACE2006GP1	ACE Securities Corp. Home Equity Loan Trust, Series 2006-GP1 Asset Backed Securities
DCOT2019-MTC	DC Office Trust 2019-MTC Commercial Mortgage Pass-Through Certificates, Series 2019-MTC
DLJWABSCRFC2007HE1	Asset Backed Securities Corporation Home Equity Loan Trust, Series RFC 2007-HE1 Asset Backed Pass-Through Certificates, Series RFC 2007-HE1
DMARC2017-OT	Olympic Tower 2017-OT Mortgage Trust Commercial Mortgage Pass-Through Certificates
DMARC2020-IMW	Manhattan West 2020-IMW Mortgage Trust Commercial Mortgage Pass-Through Certificates
DTBLAST231	Bridgecrest Lending Auto Securitization Trust 2023-1
DTBLAST241	Bridgecrest Lending Auto Securitization Trust 2024-1
DTBLAST242	Bridgecrest Lending Auto Securitization Trust 2024-2
DTBLAST243	Bridgecrest Lending Auto Securitization Trust 2024-3
DTBLAST244	Bridgecrest Lending Auto Securitization Trust 2024-4
DTBLAST251	Bridgecrest Lending Auto Securitization Trust 2025-1

DTBLAST252	Bridgecrest Lending Auto Securitization Trust 2025-2
DTBLAST253	Bridgecrest Lending Auto Securitization Trust 2025-3
DTBLAST254	Bridgecrest Lending Auto Securitization Trust 2025-4
EBLMT 2013-1	EverBank Mortgage Loan Trust 2013-1 Mortgage Pass-Through Certificates, Series 2013-1
EBMLT 2013-2	EverBank Mortgage Loan Trust 2013-2 Mortgage Pass-Through Certificates, Series 2013-2
FASC2006-FF16	First Franklin Mortgage Loan Trust 2006-FF16 Asset-Backed Certificates, Series 2006-FF16
FASC2006-FF8	First Franklin Mortgage Loan Trust 2006-FF8 Asset-Backed Certificates, Series 2006-FF8
FF 2006-FF1	First Franklin Mortgage Loan Trust 2006-FF1 Mortgage Pass-Through Certificates Series 2006-FF1
FF 2006-FFH1	First Franklin Mortgage Loan Trust 2006-FFH1 Asset-Backed Certificates, Series 2006-FFH1
FFML 2006-FF11	First Franklin Mortgage Loan Trust 2006-FF11 Mortgage Pass-Through Certificates Series 2006-FF11
FFML 2006-FF5	First Franklin Mortgage Loan Trust 2006-FF5 Mortgage Pass-Through Certificates Series 2006-FF5
FFML 2006-FF7	First Franklin Mortgage Loan Trust 2006-FF7 Mortgage Pass-Through Certificates Series 2006-FF7
FFML 2006-FF9	First Franklin Mortgage Loan Trust 2006-FF9 Mortgage Pass-Through Certificates Series 2006-FF9
FIELDSTONE 2006-1	Fieldstone Mortgage Investment Trust, Series 2006-1, Mortgage-Backed Notes
FIELDSTONE 2006-2	Fieldstone Mortgage Investment Trust, Series 2006-2, Mortgage-Backed Notes
FIELDSTONE 2006-3	Fieldstone Mortgage Investment Trust, Series 2006-3, Mortgage-Backed Notes
FIELDSTONE 2007-1	Fieldstone Mortgage Investment Trust, Series 2007-1, Mortgage-Backed Notes
FREMONT 2006-A	Fremont Home Loan Trust 2006-A, Mortgage-Backed Certificates, Series 2006-A
FREMONT 2006-B P1	Fremont Home Loan Trust 2006-B1, Mortgage-Backed Certificates, Series 2006-B1
FREMONT 2006-B P2	Fremont Home Loan Trust 2006-B2, Mortgage-Backed Certificates, Series 2006-B2
FREMONT 2006-C	Fremont Home Loan Trust 2006-C, Mortgage-Backed Certificates, Series 2006-C
FREMONT 2006-D	Fremont Home Loan Trust 2006-D, Mortgage-Backed Certificates, Series 2006-D
FREMONT 2006-E	Fremont Home Loan Trust 2006-E, Mortgage-Backed Certificates, Series 2006-E
GCMSV2006-OPT1	Soundview Home Loan Trust 2006-OPT1 Asset-Backed Certificates, Series 2006-OPT1
GCMSV2006-OPT2	Soundview Home Loan Trust 2006-OPT2 Asset-Backed Certificates, Series 2006-OPT2
GCMSV2006-OPT3	Soundview Home Loan Trust 2006-OPT3 Asset-Backed Certificates, Series 2006-OPT3
GCMSV2006-OPT4	Soundview Home Loan Trust 2006-OPT4 Asset-Backed Certificates, Series 2006-OPT4
GCMSV2006-OPT5	Soundview Home Loan Trust 2006-OPT5 Asset-Backed Certificates, Series 2006-OPT5
GCMSV2007-WMC1	Soundview Home Loan Trust 2007-WMC1 Asset-Backed Certificates, Series 2007-WMC1
GRNPT 2006-AR1	GreenPoint Mortgage Funding Trust 2006-AR1, Mortgage Pass-Through Certificates, Series 2006-AR1
GRNPT 2006-AR2	GreenPoint Mortgage Funding Trust 2006-AR2, Mortgage Pass-Through Certificates, Series 2006-AR2
GRNPT 2006-AR3	GreenPoint Mortgage Funding Trust 2006-AR3, Mortgage Pass-Through Certificates, Series 2006-AR3
GS 2007-GG10	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2007-GG10
GSA 2006-10	GSA Home Equity Trust 2006-10, Asset-Backed Certificates, Series 2006-10
GSA 2006-14	GSA Home Equity Trust 2006-14, Asset-Backed Certificates, Series 2006-14
GSA 2006-16	GSA Home Equity Trust 2006-16, Asset-Backed Certificates, Series 2006-16
GSA 2006-18	GSA Home Equity Trust 2006-18, Asset-Backed Certificates, Series 2006-18
GSA 2006-8	GSA Home Equity Trust 2006-8, Asset-Backed Certificates, Series 2006-8
GSA 2007-10	GSA Home Equity Trust 2007-10, Asset-Backed Certificates, Series 2007-10
GSA 2007-4	GSA Home Equity Trust 2007-4, Asset-Backed Certificates, Series 2007-4
GSA 2007-5	GSA Home Equity Trust 2007-5, Asset-Backed Certificates, Series 2007-5
GSA 2007-6	GSA Home Equity Trust 2007-6, Asset-Backed Certificates, Series 2007-6
GSA 2007-7	GSA Home Equity Trust 2007-7, Asset-Backed Certificates, Series 2007-7
GSA 2007-8	GSA Home Equity Trust 2007-8, Asset-Backed Certificates, Series 2007-8
GSA 2007-9	GSA Home Equity Trust 2007-9, Asset-Backed Certificates, Series 2007-9
GSM2015-GC28	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2015-GC28
GSM2015-GS1	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2015-GS1
GSMC2006-12	GSA Home Equity Trust 2006-12 Asset-Backed Certificates, Series 2006-12
GSMC20066	GSA Home Equity Trust 2006-6 Asset-Backed Certificates, Series 2006-6
GSMC2006S3	GSAMP Trust 2006-S3 MORTGAGE PASS-THROUGH CERTIFICATES, SERIES 2006-S3
GSMGSR2007HEL1	GS Mortgage Securities Corp. GSR Trust 2007-HEL 1, Mortgage-Backed Notes, Series 2007-HEL1
GSMS2013-CJ14	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2013-GC14
GSMS 2013-GC12	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2013-GC12
GSMS2014-GC20	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2014-GC20
GSMS2014-GC22	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2014-GC22
GSMS2014-GC24	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2014-GC24
GSMS2015-590M	GS Mortgage Securities Corporation Trust 2015-590M, Commercial Mortgage Pass-Through Certificates, Series 2015-590M
GSMS2015-GC32	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2015-GC32
GSMS2016-GS2	GS Mortgage Securities Trust 2016-GS2 Commercial Mortgage Pass-Through Certificates, Series 2016-GS2
GSMS2016-GS3	GS Mortgage Securities Trust 2016-GS3 Commercial Mortgage Pass-Through Certificates, Series 2016-GS3
GSMS2016-GS4	GS Mortgage Securities Trust 2016-GS4 Commercial Mortgage Pass-Through Certificates, Series 2016-GS4
GSMS2017-FARM	GS Mortgage Securities Corporation Trust 2017-FARM, Commercial Mortgage Pass-Through Certificates, Series 2017-FARM
GSMS2017-GS5	GS Mortgage Securities Trust 2017-GS5 Commercial Mortgage Pass Through Certificates, Series 2017-GS5
GSMS2017-GS6	GS Mortgage Securities Trust 2017-GS6 Commercial Mortgage Pass Through Certificates, Series 2017-GS6
GSMS2017-GS7	GS Mortgage Securities Trust 2017-GS7 Commercial Mortgage Pass-Through Certificates Series 2017-GS7
GSMS2017-GS8	GS Mortgage Securities Trust 2017-GS8 Commercial Mortgage Pass-Through Certificates Series 2017-GS8
GSMS2017-WWP	Worldwide Plaza Trust 2017-WWP Commercial Mortgage Pass-Through Certificates, Series 2017-WWP
GSMS2018-GS10	GS Mortgage Securities Trust 2018-GS10 Commercial Mortgage Pass-Through Certificates, Series 2018-GS10
GSMS2018-GS9	GS Mortgage Securities Trust 2018-GS9 Commercial Mortgage Pass-Through Certificates, Series 2018-GS9
GSMS2019-101C	CALLI Mortgage Trust 2019-101C Commercial Mortgage Pass-Through Certificates, Series 2019-101C
GSMS2019-1633	BWAY Trust 2019-1633 Commercial Mortgage Pass-Through Certificates, Series 2019-1633
GSMS2019-GC38	GS Mortgage Securities Trust 2019-GC38 Commercial Mortgage Pass-Through Certificates, Series 2019-GC38
GSMS2019-GC39	GS Mortgage Securities Trust 2019-GC39 Commercial Mortgage Pass-Through Certificates, Series 2019-GC39
GSMS2019-GC40	GS Mortgage Securities Trust 2019-GC40 Commercial Mortgage Pass-Through Certificates, Series 2019-GC40
GSMS2019-GC42	GS Mortgage Securities Trust 2019-GC42 Commercial Mortgage Pass-Through Certificates, Series 2019-GC42
GSMS2019-GSA1	GS Mortgage Securities Trust 2019-GSA1 Commercial Mortgage Pass-Through Certificates, Series 2019-GSA1
GSMS2020-ABC	MOFT Trust 2020-ABC Commercial Mortgage Pass Through Certificates, Series 2020-ABC
GSMS2020-GC45	GS Mortgage Securities Trust 2020-GC45 Commercial Mortgage Pass-Through Certificates, Series 2020-GC45
GSMS2020-GC47	GS Mortgage Securities Trust 2020-GC47 Commercial Mortgage Pass-Through Certificates, Series 2020-GC47
GSMS2020-GSA2	GS Mortgage Securities Trust 2020-GSA2 Commercial Mortgage Pass Through Certificates Series 2020-GSA2
GSMS2021-GSA3	GS Mortgage Securities Trust 2021-GSA3 Commercial Mortgage Pass Through Certificates, Series 2021-GSA3

GSM2021-VR	BGME Trust 2021-VR Commercial Mortgage Pass-Through Certificates, Series 2021-VR
GSMSC 2013-GC10	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2013-GC10
GSR 2006-5F	GSR Mortgage Loan Trust 2006-5F, Mortgage Pass-Through Certificates, Series 2006-5F
GSR 2006-AR1	GSR Mortgage Loan Trust 2006-AR1, Mortgage Pass-Through Certificates, Series 2006-AR1
GSR 2006-AR2	GSR Mortgage Loan Trust 2006-AR2, Mortgage Pass-Through Certificates, Series 2006-AR2
GSR 2007-AR1	GSR Mortgage Loan Trust 2007-AR1 Mortgage Pass-Through Certificates, Series 2007-AR1
GSR 2007-AR2	GSR Mortgage Loan Trust 2007-AR2 Mortgage Pass-Through Certificates, Series 2007-AR2
HALO 2007-2	HSI Asset Loan Obligation Trust 2007-2, Mortgage Pass-Through Certificates, Series 2007-2
HALO 2007-AR2	HSI Asset Loan Obligation Trust 2007-AR2, Mortgage Pass-Through Certificates, Series 2007-AR2
HARBORVIEW 2007-2	Harborview Mortgage Loan Trust 2007-2 Mortgage Loan Pass-Through Certificates, Series 2007-2
HARBORVIEW 2007-4	Harborview Mortgage Loan Trust 2007-4 Mortgage Loan Pass-Through Certificates, Series 2007-4
HARBORVIEW 2007-7	Harborview Mortgage Loan Trust 2007-7 Mortgage Loan Pass-Through Certificates, Series 2007-7
HASCO 2006-HE1	HSI Asset Securitization Corporation Trust 2006-HE1, Mortgage Pass-Through Certificates, Series 2006-HE1
HASCO 2006-OPT1	HSI Asset Securitization Corporation Trust 2006-OPT1, Mortgage Pass-Through Certificates, Series 2006-OPT1
HASCO 2006-OPT2	HSI Asset Securitization Corporation Trust 2006-OPT2, Mortgage Pass-Through Certificates, Series 2006-OPT2
HASCO 2006-OPT3	HSI Asset Securitization Corporation Trust 2006-OPT3, Mortgage Pass-Through Certificates, Series 2006-OPT3
HASCO 2006-OPT4	HSI Asset Securitization Corporation Trust 2006-OPT4, Mortgage Pass-Through Certificates, Series 2006-OPT4
HASCO 2006-WMC1	HSI Asset Securitization Corporation Trust 2006-WMC1, Mortgage Pass-Through Certificates, Series 2006-WMC1
HASCO 2007-HE1	HSI Asset Securitization Corporation Trust 2007-HE1, Mortgage Pass-Through Certificates, Series 2007-HE1
HASCO 2007-HE2	HSI Asset Securitization Corporation Trust 2007-HE2, Mortgage Pass-Through Certificates, Series 2007-HE2
HASCO 2007-NC1	HSI Asset Securitization Corporation Trust 2007-NC1, Mortgage Pass-Through Certificates, Series 2007-NC1
HASCO 2007-WF1	HSI Asset Securitization Corporation Trust 2007-WF1, Mortgage Pass-Through Certificates, Series 2007-WF1
HEAT 2006-1	Home Equity Pass-Through Certificates, Series 2006-1
HEAT2006-3	Home Equity Pass-Through Certificates, Series 2006-3
HEAT 2006-4	Home Equity Asset Trust 2006-4 Home Equity Pass-Through Certificates Series 2006-4
HEAT2006-5	Home Equity Asset Trust 2006-5 Home Equity Pass-Through Certificates, Series 2006-5
HEAT 2006-6	Home Equity Asset Trust 2006-6 Home Equity Pass-Through Certificates Series 2006-6
HEAT2006-7	Home Equity Asset Trust 2006-7 Home Equity Pass-Through Certificates, Series 2006-7
HEAT2006-8	Home Equity Asset Trust 2006-8 Home Equity Pass-Through Certificates, Series 2006-8
HEAT2007-1	Home Equity Asset Trust 2007-1 Home Equity Pass-Through Certificates, Series 2007-1
HEAT2007-2	Home Equity Asset Trust 2007-2 Home Equity Pass-Through Certificates, Series 2007-2
HELT2007-FRE1	Nationstar Funding LLC Home Equity Loan Trust 2007-FRE1
HEMT20061	Home Equity Mortgage Trust Series 2006-1 Home Equity Mortgage Pass-Through Certificates, Series 2006-1
HEMT20063	Home Equity Mortgage Trust Series 2006-3 Home Equity Mortgage Pass-Through Certificates, Series 2006-3
HEMT20064	Home Equity Mortgage Trust Series 2006-4 Home Equity Mortgage Pass-Through Certificates, Series 2006-4
HIGH2023-FIVE	FIVE 2023-VI Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2023-V1
HSBAHALO2006-2	HSI Asset Loan Obligation Trust 2006-2 Mortgage Pass-Through Certificates, Series 2006-2
HSBAHALO2007-1	HSI Asset Loan Obligation Trust 2007-1 Mortgage Pass-Through Certificates, Series 2007-1
HSBAHALO2007-AR1	HSI Asset Loan Obligation Trust 2007-AR1 Mortgage Pass-Through Certificates, Series 2007-AR1
HSBAHALO2007-WF1	HSI Asset Loan Obligation Trust 2007-WF1 Mortgage Pass-Through Certificates, Series 2007-WF1
HSBAHASC02006HE2	HSI Asset Securitization Corporation Trust 2006-HE2 Mortgage Pass-Through Certificates, Series 2006-HE2
HSBAHASC02007OPT	HSI Asset Securitization Corporation Trust 2007-OPT1 Mortgage Pass-Through Certificates, Series 2007-OPT1
HUDSONYARDS2019-30HY	Hudson Yards 2019-30HY Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Hudson Yards 2019-30HY Mortgage Trust
HY2025-SPRL	Hudson Yards 2025-SPRL Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2025-SPRL
ILPT2019-SURF	ILPT Trust 2019-SURF Commercial Mortgage Pass-Through Certificates, Series 2019-SURF
ILPT2022-LPFX	ILPT Commercial Mortgage Trust 2022-LPFX Commercial Mortgage Pass-Through Certificates, Series 2022-LPFX
ILPT2025-LPP2	ILPT Commercial Mortgage Trust 2025-LPP2 Commercial Mortgage Pass-Through Certificates, Series 2025-LPP2
INT2025-PLAZA	INT Commercial Mortgage Trust 2025-PLAZA, Commercial Mortgage Pass-Through Certificates, Series 2025-PLAZA
JPM 2013-C12	JPMBB Commercial Mortgage Securities Trust 2013-C12, Commercial Mortgage Pass-Through Certificates, Series 2013-C12
JPM2013-C13	J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-C13, Commercial Mortgage Pass-Through Certificates, Series 2013-C13
JPM2013-C14	JPMBB Commercial Mortgage Securities Trust 2013-C14, Commercial Mortgage Pass-Through Certificates, Series 2013-C14
JPM2013-C15	JPMBB Commercial Mortgage Securities Trust 2013-C15, Commercial Mortgage Pass-Through Certificates, Series 2013-C15
JPM2013-C16	J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-C16, Commercial Mortgage Pass-Through Certificates, Series 2013-C16
JPM2014-C18	JPMBB Commercial Mortgage Securities Trust 2014-C18, Commercial Mortgage Pass-Through Certificates, Series 2014-C18
JPM2014-C19	JPMBB Commercial Mortgage Securities Trust 2014-C19, Commercial Mortgage Pass-Through Certificates, Series 2014-C19
JPM2014-C20	J.P. Morgan Chase Commercial Mortgage Securities Trust 2014-C20, Commercial Mortgage Pass-Through Certificates, Series 2014-C20
JPM2014-C21	JPMBB Commercial Mortgage Securities Trust 2014-C21, Commercial Mortgage Pass-Through Certificates, Series 2014-C21
JPM2014-C22	JPMBB Commercial Mortgage Securities Trust 2014-C22, Commercial Mortgage Pass-Through Certificates, Series 2014-C22
JPM2014-C23	JPMBB Commercial Mortgage Securities Trust 2014-C23, Commercial Mortgage Pass-Through Certificates, Series 2014-C23
JPM2014-C24	JPMBB Commercial Mortgage Securities Trust 2014-C24, Commercial Mortgage Pass-Through Certificates, Series 2014-C24
JPM2014-C26	JPMBB Commercial Mortgage Securities Trust 2014-C26, Commercial Mortgage Pass-Through Certificates, Series 2014-C26
JPM2015-C27	JPMBB Commercial Mortgage Securities Trust 2015-C27, Commercial Mortgage Pass-Through Certificates, Series 2015-C27
JPM2015-C28	JPMBB Commercial Mortgage Securities Trust 2015-C28, Commercial Mortgage Pass-Through Certificates, Series 2015-C28
JPM2015-C29	JPMBB Commercial Mortgage Securities Trust 2015-C29, Commercial Mortgage Pass-Through Certificates, Series 2015-C29
JPM2015-C30	JPMBB Commercial Mortgage Securities Trust 2015-C30, Commercial Mortgage Pass-Through Certificates, Series 2015-C30
JPM2015-C31	JPMBB Commercial Mortgage Securities Trust 2015-C31, Commercial Mortgage Pass-Through Certificates, Series 2015-C31
JPM2015-C32	JPMBB Commercial Mortgage Securities Trust 2015-C32, Commercial Mortgage Pass-Through Certificates, Series 2015-C32
JPM2015-C33	JPMBB Commercial Mortgage Securities Trust 2015-C33, Commercial Mortgage Pass-Through Certificates, Series 2015-C33
JPM2015-JP1	JPMCC Commercial Mortgage Securities Trust 2015-JP1, Commercial Mortgage Pass-Through Certificates, Series 2015-JP1
JPM2016-C1	JPMBB Commercial Mortgage Securities Trust 2016-C1 Commercial Mortgage Pass-Through Certificates Series 2016-C1
JPM2014-C25	JPMBB Commercial Mortgage Securities Trust 2014-C25, Commercial Mortgage Pass-Through Certificates, Series 2014-C25
JPMC 12-CIBX	J.P. Morgan Chase Commercial Mortgage Securities Trust 2012-CIBX, Commercial Mortgage Pass-Through Certificates, Series 2012-CIBX
JPMC 12-LC9	J.P. Morgan Chase Commercial Mortgage Securities Trust 2012-LC9, Commercial Mortgage Pass-Through Certificates, Series 2012-LC9

JPMC 13-LC11	J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-LC11, Commercial Mortgage Pass-Through Certificates, Series 2013-LC11
JPMC 2012-C6	J.P. Morgan Chase Commercial Mortgage Securities Trust 2012-C6, Commercial Mortgage Pass-Through Certificates, Series 2012-C6
JPMC 2012-C8	J.P. Morgan Chase Commercial Mortgage Securities Trust 2012-C8, Commercial Mortgage Pass-Through Certificates, Series 2012-C8
JPMC 2013-C10	J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-C10, Commercial Mortgage Pass-Through Certificates, Series 2013-C10
JPMC2013-C17	JPMBB Commercial Mortgage Securities Trust 2013-C17, Commercial Mortgage Pass-Through Certificates, Series 2013-C17
JPMC2015-HGLR	Houston Galleria Mall Trust 2015-HGLR, Commercial Mortgage Securities Pass-Through Certificates, Series 2015-HGLR
JPMC2015-WPG	J.P. Morgan Chase Commercial Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-WPG
JPMC 2016-CSTL	Shops at Crystals Trust 2016-CSTL Commercial Mortgage Pass-Through Certificates, Series 2016-CSTL
JPMC2016-HHV	Hilton USA Trust 2016-HHV Commercial Mortgage Pass-Through Certificates, Series 2016-HHV
JPMC2016-JP2	JPMCC Commercial Mortgage Securities Trust 2016-JP2 Commercial Mortgage Pass-Through Certificates Series 2016-JP2
JPMC2016-JP4	JPMCC Commercial Mortgage Securities Trust 2016-JP4 Commercial Mortgage Pass-Through Certificates, Series 2016-JP4
JPMC2016-NINE	J.P. Morgan Chase Commercial Mortgage Securities Trust 2016-NINE Commercial Mortgage Pass-Through Certificates, Series 2016-NINE
JPMC2016-PLSD	Palisades Center Trust 2016-PLSD Commercial Mortgage Pass-Through Certificates, Series 2016-PLSD
JPMC2017-245P	245 Park Avenue Trust 2017-245P Commercial Mortgage Pass-Through Certificates, Series 2017-245P
JPMC2017-JP5	JPMCC Commercial Mortgage Securities Trust 2017-JP5, Commercial Mortgage Pass-Through Certificates, Series 2017-JP5
JPMC2017-JP6	JPMCC Commercial Mortgage Securities Trust 2017-JP6, Commercial Mortgage Pass-Through Certificates, Series 2017-JP6
JPMC2017-JP7	JPMCC Commercial Mortgage Securities Trust 2017-JP7 Commercial Mortgage Pass-Through Certificates, Series 2017-JP7
JPMC2018-AON	J.P. Morgan Chase Commercial Mortgage Securities Trust 2018-AON, Commercial Mortgage Pass-Through Certificates, Series 2018-AON
JPMC2018-AVM	Avventura Mall Trust 2018-AVM Commercial Mortgage Pass-Through Certificates, Series 2018-AVM
JPMC2018-WPT	J.P. Morgan Chase Commercial Mortgage Securities Trust 2018-WPT Commercial Mortgage Pass-Through Certificates, Series 2018-WPT
JPMC2019-COR4	JPMCC Commercial Mortgage Securities Trust 2019-COR4, Commercial Mortgage Pass-Through Certificates, Series 2019-COR4
JPMC2019-COR5	JPMCC Commercial Mortgage Securities Trust 2019-COR5 Commercial Mortgage Pass-Through Certificates, Series 2019-COR5
JPMC2019-COR6	JPMDB Commercial Mortgage Securities Trust 2019-COR6 Commercial Mortgage Pass-Through Certificates Series 2019-COR6
JPMC2019-ICON	J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-ICON, Commercial Mortgage Pass-Through Certificates, Series 2019-ICON
JPMC2019-ICON UES	J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-ICON UES, Commercial Mortgage Pass-Through Certificates, Series 2019-ICON UES
JPMC2019-OSB	J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-OSB Commercial Mortgage Pass-Through Certificates, Series 2019-OSB
JPMC2020-LOOP	J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-LOOP Commercial Mortgage Pass-Through Certificates, Series 2020-LOOP
JPMC2020-NNN	J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-NNN, Commercial Mortgage Pass-Through Certificates, Series 2020-NNN
JPMC2021-IMEM	J.P. Morgan Chase Commercial Mortgage Securities Trust 2021-IMEM Commercial Mortgage Pass-Through Certificates, Series 2021-IMEM
JPMC2021-410T	J.P. Morgan Chase Commercial Mortgage Securities Trust 2021-410T Commercial Mortgage Pass-Through Certificates, Series 2021-410T
JPMC2022-OPO	J.P. Morgan Chase Commercial Mortgage Securities Trust 2022-OPO Commercial Mortgage Pass-Through Certificates, Series 2022-OPO
JPMCC2016-JP3	JPMCC Commercial Mortgage Securities Trust 2016-JP3 Commercial Mortgage Pass-Through Certificates, Series 2016-JP3
JPM CHAS 2007-CIBC20	J.P. Morgan Chase Commercial Mortgage Securities Trust, Commercial Mortgage Pass-Through Certificates, Series 2007-CIBC20
JPMDB2016-C2	JPMDB Commercial Mortgage Securities Trust 2016-C2 Commercial Mortgage Pass-Through Certificates, Series 2016-C2
JPMDB2016-C4	JPMDB Commercial Mortgage Securities Trust 2016-C4 Commercial Mortgage Pass-Through Certificates, Series 2016-C4
JPMDB 2017-C5	JPMDB Commercial Mortgage Securities Trust 2017-C5, Commercial Mortgage Pass-Through Certificates, Series 2017-C5
JPMDB2017-C7	JPMDB Commercial Mortgage Securities Trust 2017-C7 Commercial Mortgage Pass-Through Certificates Series 2017-C7
JPMDB2018-C8	JPMDB Commercial Mortgage Securities Trust 2018-C8, Commercial Mortgage Pass-Through Certificates, Series 2018-C8
JPMDB2020-COR7	JPMDB Commercial Mortgage Securities Trust 2020-COR7, Commercial Mortgage Pass-Through Certificates, Series 2020-COR7
KREST2021-CHIP	KREST Commercial Mortgage Securities Trust 2021-CHIP, Commercial Mortgage Pass-Through Certificates, Series 2021-CHIP
LCCM2017-LC26	LCCM 2017-LC26 Mortgage Trust Commercial Mortgage Pass Through Certificates, Series 2017-LC26
LEHMLMT20062	Lehman Mortgage Trust Mortgage Pass-Through Certificates Series 2006-2
LEHMLMT20064	Lehman Mortgage Trust Mortgage Pass-Through Certificates Series 2006-4
LEHMLMT20068	Lehman Mortgage Trust Mortgage Pass-Through Certificates Series 2006-8
LEHMLMT20072	Lehman Mortgage Trust Mortgage Pass-Through Certificates Series 2007-2
LEHMLMT20076	Lehman Mortgage Trust Mortgage Pass-Through Certificates Series 2007-6
LEHMLMT20077	Lehman Mortgage Trust Mortgage Pass-Through Certificates Series 2007-7
LEHMLMT20078	Lehman Mortgage Trust Mortgage Pass-Through Certificates Series 2007-8
LEHMLXS200610N	Lehman XS Trust Mortgage Pass-Through Certificates Series 2006-10N
LEHMLXS200611	Lehman XS Trust Mortgage Pass-Through Certificates Series 2006-11
LEHMLXS200612N	Lehman XS Trust Mortgage Pass-Through Certificates Series 2006-12N
LEHMLXS200613	Lehman XS Trust Mortgage Pass-Through Certificates Series 2006-13
LEHMLXS200615	Lehman XS Trust Mortgage Pass-Through Certificates Series 2006-15
LEHMLXS200617	Lehman XS Trust Mortgage Pass-Through Certificates Series 2006-17
LEHMLXS200618N	Lehman XS Trust Mortgage Pass-Through Certificates Series 2006-18N
LEHMLXS200619	Lehman XS Trust Mortgage Pass-Through Certificates Series 2006-19
LEHMLXS200620	Lehman XS Trust Mortgage Pass-Through Certificates Series 2006-20
LEHMLXS20063	Lehman XS Trust Mortgage Pass-Through Certificates Series 2006-3
LEHMLXS20065	Lehman XS Trust Mortgage Pass-Through Certificates Series 2006-5
LEHMLXS20067	Lehman XS Trust Mortgage Pass-Through Certificates Series 2006-7
LEHMLXS20068	Lehman XS Trust Mortgage Pass-Through Certificates Series 2006-8
LEHMLXS20071	Lehman XS Trust Mortgage Pass-Through Certificates Series 2007-1
LEHMLXS200711	Lehman XS Trust Mortgage Pass-Through Certificates Series 2007-11
LEHMLXS200712N	Lehman XS Trust Mortgage Pass-Through Certificates Series 2007-12N
LEHMLXS200714H	Lehman XS Trust Mortgage Pass-Through Certificates Series 2007-14H
LEHMLXS200715N	Lehman XS Trust Mortgage Pass-Through Certificates Series 2007-15N
LEHMLXS20072N	Lehman XS Trust Mortgage Pass-Through Certificates Series 2007-2N
LEHMLXS20073	Lehman XS Trust Mortgage Pass-Through Certificates Series 2007-3
LEHMLXS20074N	Lehman XS Trust Mortgage Pass-Through Certificates Series 2007-4N
LEHMLXS20076	Lehman XS Trust Mortgage Pass-Through Certificates Series 2007-6
LEHMLXS20078H	Lehman XS Trust Mortgage Pass-Through Certificates Series 2007-8H
LEHMLXS20079	Lehman XS Trust Mortgage Pass-Through Certificates Series 2007-9
LEHMSARM200611	Structured Adjustable Rate Mortgage Loan Trust Mortgage Pass-Through Certificates Series 2006-11
LEHMSARM200612	Structured Adjustable Rate Mortgage Loan Trust Mortgage Pass-Through Certificates Series 2006-12
LEHMSARM200710	Structured Adjustable Rate Mortgage Loan Trust Mortgage Pass-Through Certificates, Series 2007-10
LEHMSARM20075	Structured Adjustable Rate Mortgage Loan Trust Mortgage Pass-Through Certificates, Series 2007-5
LEHMSARM20077	Structured Adjustable Rate Mortgage Loan Trust Mortgage Pass-Through Certificates, Series 2007-7
LEHMSARM20078	Structured Adjustable Rate Mortgage Loan Trust Mortgage Pass-Through Certificates, Series 2007-8

LEHMSASC0063H	Structured Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2006-3H
LEHMSASC02007BC2	Structured Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2007-BC2
LEHMSASC02007BC4	Structured Asset Securities Corporation Mortgage Pass-Through Certificates, Series 2007-BC4
LMT 2006-5	Lehman Mortgage Trust Mortgage Pass-Through Certificates, Series 2006-5
LMT 2006-7	Lehman Mortgage Trust Mortgage Pass-Through Certificates, Series 2006-7
LMT 2007-10	Lehman Mortgage Trust Mortgage Pass-Through Certificates, Series 2007-10
LMT 2007-4	Lehman Mortgage Trust Mortgage Pass-Through Certificates, Series 2007-4
LMT 2007-5	Lehman Mortgage Trust Mortgage Pass-Through Certificates, Series 2007-5
LMT 2007-9	Lehman Mortgage Trust Mortgage Pass-Through Certificates, Series 2007-9
LMT 2008-2	Lehman Mortgage Trust Mortgage Pass-Through Certificates, Series 2008-2
LSTAR2017-5	LSTAR Commercial Mortgage Trust 2017-5, Commercial Mortgage Pass-Through Certificates, Series 2017-5
LUMINENT 06-3	Luminent Mortgage Trust 2006-3, Mortgage Pass-Through Certificates, Series 2006-3
LUMINENT 2006-2	Luminent Mortgage Trust 2006-2, Mortgage Pass-Through Certificates, Series 2006-2
LUMINENT 2006-4	Luminent Mortgage Trust 2006-4, Mortgage Pass-Through Certificates, Series 2006-4
LUMINENT 2006-5	Luminent Mortgage Trust 2006-5, Mortgage Pass-Through Certificates, Series 2006-5
LUMINENT 2006-6	Luminent Mortgage Trust 2006-6, Mortgage Pass-Through Certificates, Series 2006-6
LUMINENT 2006-7	Luminent Mortgage Trust 2006-7, Mortgage Pass-Through Certificates, Series 2006-7
LUMINENT 2007-1	Luminent Mortgage Trust 2007-1, Mortgage Pass-Through Certificates, Series 2007-1
LUMINENT 2007-2	Luminent Mortgage Trust 2007-2, Mortgage Pass-Through Certificates, Series 2007-2
MABS 2006-AB1	MASTR Asset-Backed Securities Trust 2006-AB1, Mortgage Pass-Through Certificates, Series 2006-AB1
MABS 2006-FRE1	MASTR Asset-Backed Securities Trust 2006-FRE1, Mortgage Pass-Through Certificates, Series 2006-FRE1
MABS 2006-HE1	MASTR Asset-Backed Securities Trust 2006-HE1, Mortgage Pass-Through Certificates, Series 2006-HE1
MABS 2006-HE2	MASTR Asset-Backed Securities Trust 2006-HE2, Mortgage Pass-Through Certificates, Series 2006-HE2
MABS 2006-HE3	MASTR Asset-Backed Securities Trust 2006-HE3, Mortgage Pass-Through Certificates, Series 2006-HE3
MABS 2006-HE4	MASTR Asset-Backed Securities Trust 2006-HE4, Mortgage Pass-Through Certificates, Series 2006-HE4
MABS 2006-HE5	MASTR Asset-Backed Securities Trust 2006-HE5, Mortgage Pass-Through Certificates, Series 2006-HE5
MABS 2006-WMC1	MASTR Asset-Backed Securities Trust 2006-WMC1, Mortgage Pass-Through Certificates, Series 2006-WMC1
MABS 2006-WMC2	MASTR Asset-Backed Securities Trust 2006-WMC2, Mortgage Pass-Through Certificates, Series 2006-WMC2
MABS 2006-WMC3	MASTR Asset-Backed Securities Trust 2006-WMC3, Mortgage Pass-Through Certificates, Series 2006-WMC3
MABS 2006-WMC4	MASTR Asset-Backed Securities Trust 2006-WMC4, Mortgage Pass-Through Certificates, Series 2006-WMC4
MABS 2007-HE1	MASTR Asset-Backed Securities Trust 2007-HE1, Mortgage Pass-Through Certificates, Series 2007-HE1
MABS 2007-HE2	MASTR Asset-Backed Securities Trust 2007-HE2, Mortgage Pass-Through Certificates, Series 2007-HE2
MABS 2007-WMC1	MASTR Asset-Backed Securities Trust 2007-WMC1, Mortgage Pass-Through Certificates, Series 2007-WMC1
MAD2015-11MD	MAD 2015-11MD Mortgage Trust, Commercial Mortgage Pass-Through Certificates
MALT 2006-1	MASTR Alternative Loan Trust 2006-1, Mortgage Pass-Through Certificates, Series 2006-1
MALT 2006-2	MASTR Alternative Loan Trust 2006-2, Mortgage Pass-Through Certificates, Series 2006-2
MALT 2006-3	MASTR Alternative Loan Trust 2006-3, Mortgage Pass-Through Certificates, Series 2006-3
MALT 2007-1	MASTR Alternative Loan Trust 2007-1, Mortgage Pass-Through Certificates, Series 2007-1
MALT 2007-HF1	MASTR Alternative Loan Trust 2007-HF1, Mortgage Pass-Through Certificates, Series 2007-HF1
MANA 2007-A1	Merrill Lynch Mortgage Investors, Inc., Mortgage Pass-Through Certificates, MANA Series 2007-A1
MANA 2007-A2	Merrill Lynch Mortgage Investors, Inc., Mortgage Pass-Through Certificates, MANA Series 2007-A2
MANA 2007-A3	Merrill Lynch Mortgage Investors, Inc., Mortgage Pass-Through Certificates, MANA Series 2007-A3
MANA 2007-AF1 (I)	Merrill Lynch Mortgage Investors, Inc., Mortgage Pass-Through Certificates, MANA Series 2007-AF1-I
MANA 2007-AF1 (II)	Merrill Lynch Mortgage Investors, Inc., Mortgage Pass-Through Certificates, MANA Series 2007-AF1-II
MANA 2007-F1	Merrill Lynch Mortgage Investors, Inc., Mortgage Pass-Through Certificates, MANA Series 2007-F1
MANA 2007-OAR1	Merrill Lynch Mortgage Investors, Inc., Mortgage Pass-Through Certificates, MANA Series 2007-OAR1
MANA 2007-OAR2	Merrill Lynch Mortgage Investors, Inc., Mortgage Pass-Through Certificates, MANA Series 2007-OAR2
MANA 2007-OAR3	Merrill Lynch Mortgage Investors, Inc., Mortgage Pass-Through Certificates, MANA Series 2007-OAR3
MANA 2007-OAR4	Merrill Lynch Mortgage Investors, Inc., Mortgage Pass-Through Certificates, MANA Series 2007-OAR4
MANA 2007-OAR5	Merrill Lynch Mortgage Investors, Inc., Mortgage Pass-Through Certificates, MANA Series 2007-OAR5
MARM 2006-2	MASTR Adjustable Rate Mortgages Trust 2006-2, Mortgage Pass-Through Certificates, Series 2006-2
MARM 2006-OA1	MASTR Adjustable Rate Mortgages Trust 2006-OA1, Mortgage Pass-Through Certificates, Series 2006-OA1
MARM 2006-OA2	MASTR Adjustable Rate Mortgages Trust 2006-OA2, Mortgage Pass-Through Certificates, Series 2006-OA2
MARM 2007-1	MASTR Adjustable Rate Mortgages Trust 2007-1, Mortgage Pass-Through Certificates, Series 2007-1
MARM 2007-2	MASTR Adjustable Rate Mortgages Trust 2007-2, Mortgage Pass-Through Certificates, Series 2007-2
MARM 2007-3	MASTR Adjustable Rate Mortgages Trust 2007-3, Mortgage Pass-Through Certificates, Series 2007-3
MARM 2007-HF1	MASTR Adjustable Rate Mortgages Trust 2007-HF1, Mortgage Pass-Through Certificates, Series 2007-HF1
MARM 2007-HF2	MASTR Adjustable Rate Mortgages Trust 2007-HF2, Mortgage Pass-Through Certificates, Series 2007-HF2
MASL 2006-1	MASTR Second Lien Trust 2006-1, Mortgage Pass-Through Certificates, Series 2006-1
MASTR 2006-1	MASTR Asset Securitization Trust 2006-1, Mortgage Pass-Through Certificates, Series 2006-1
MASTR 2006-2	MASTR Asset Securitization Trust 2006-2, Mortgage Pass-Through Certificates, Series 2006-2
MASTR 2006-3	MASTR Asset Securitization Trust 2006-3, Mortgage Pass-Through Certificates, Series 2006-3
MASTR 2007-1	MASTR Asset Securitization Trust 2007-1, Mortgage Pass-Through Certificates, Series 2007-1
MF12021-W10X	MF1 2021-W10X Commercial Mortgage Pass-Through Certificates, Series 2021-W10X
MIRA2023-MILE	MIRA Trust 2023-MILE Commercial Mortgage Pass-Through Certificates, Series 2023-MILE
MKT2020-525M	MKT 2020-525M Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2020-525M
MLCC 2006-1	Merrill Lynch Mortgage Investors Trust Series MLCC 2006-1 Mortgage Pass-Through Certificates
MLCC 2006-2	Merrill Lynch Mortgage Investors Trust Series MLCC 2006-2 Mortgage Pass-Through Certificates
MLCC 2006-3	Merrill Lynch Mortgage Investors Trust Series MLCC 2006-3 Mortgage Pass-Through Certificates
MLCC 2007-1	Merrill Lynch Mortgage Investors Trust Series MLCC 2007-1 Mortgage Pass-Through Certificates
MLCC 2007-2	Merrill Lynch Mortgage Investors Trust Series MLCC 2007-2 Mortgage Pass-Through Certificates
MLCC 2007-3	Merrill Lynch Mortgage Investors Trust Series MLCC 2007-3 Mortgage Pass-Through Certificates
MLMBS 2007-1	Merrill Lynch Mortgage-Backed Securities Trust, Series 2007-1
MLMBS 2007-2	Merrill Lynch Mortgage-Backed Securities Trust, Series 2007-2
MLMBS 2007-3	Merrill Lynch Mortgage-Backed Securities Trust, Series 2007-3
MLMI 2006-A1	Merrill Lynch Mortgage Investors Inc., Mortgage Pass-Through Certificates, MLMI Series 2006-A1

MLMI 2006-A2	Merrill Lynch Mortgage Investors Inc., Mortgage Pass-Through Certificates, MLMI Series 2006-A2
MLMI 2006-A3	Merrill Lynch Mortgage Investors Inc., Mortgage Pass-Through Certificates, MLMI Series 2006-A3
MLMI 2006-A4	Merrill Lynch Mortgage Investors Inc., Mortgage Pass-Through Certificates, MLMI Series 2006-A4
MLMI 2006-AF1	Merrill Lynch Mortgage Investors Inc., Mortgage Pass-Through Certificates, MLMI Series 2006-AF1
MLMI 2006-AF2 (I)	Merrill Lynch Mortgage Investors Inc., Mortgage Pass-Through Certificates, MLMI Series 2006-AF2-I
MLMI 2006-AF2 (II)	Merrill Lynch Mortgage Investors Inc., Mortgage Pass-Through Certificates, MLMI Series 2006-AF2-II
MLMI 2006-F1	Merrill Lynch Mortgage Investors Trust Mortgage Loan Asset-Backed Certificates, Series 2006-F1
MLMI2006FM1	Merrill Lynch Mortgage Investors Trust, Mortgage Loan Asset-Backed Certificates, Series 2006-FM1
MLMI 2006-HE1	Merrill Lynch Mortgage Investors Trust Mortgage Loan Asset-Backed Certificates, Series 2006-HE1
MLMI2006HE2	Merrill Lynch Mortgage Investors Trust, Mortgage Loan Asset-Backed Certificates, Series 2006-HE2
MLMI2006HE3	Merrill Lynch Mortgage Investors Trust, Mortgage Loan Asset-Backed Certificates, Series 2006-HE3
MLMI 2006-OPT1	Merrill Lynch Mortgage Investors Trust, Mortgage Loan Asset-Backed Certificates, Series 2006-OPT1
MLMI2006RM1	Merrill Lynch Mortgage Investors Trust, Mortgage Loan Asset-Backed Certificates, Series 2006-RM1
MLMI2006SL1	Merrill Lynch Mortgage Investors Trust, Mortgage Loan Asset-Backed Certificates, Series 2006-SL1
MLMI2006SL2	Merrill Lynch Mortgage Investors Trust, Mortgage Loan Asset-Backed Certificates, Series 2006-SL2
MLMI 2006-WMC1	Merrill Lynch Mortgage Investors Trust Mortgage Loan Asset-Backed Certificates, Series 2006-WMC1
MLMI2006WMC2	Merrill Lynch Mortgage Investors Trust, Mortgage Loan Asset-Backed Certificates, Series 2006-WMC2
MLMI2007HE2	Merrill Lynch Mortgage Investors Trust, Mortgage Loan Asset-Backed Certificates, Series 2007-HE2
MOFT2020-B6	MOFT 2020-B6 Mortgage Trust Commercial Mortgage Pass-Through Certificates
MORG2012C5	Morgan Stanley Capital I Inc. Commercial Mortgage Pass-Through Certificates Series 2012-C5
MORG2013C7	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C7 Commercial Mortgage Pass-Through Certificates Series 2013-C7
MRC2019-PARK	MRC2019-PARK Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-PARK
MROGN2006HE3	Morgan Stanley ABS Capital I Inc. Trust 2006-HE3 Mortgage Pass-Through Certificates, Series 2006-HE3
MROGN2006HE4	Morgan Stanley ABS Capital I Inc. Trust 2006-HE4 Mortgage Pass-Through Certificates, Series 2006-HE4
MROGN2006HE5	Morgan Stanley ABS Capital I Inc. Trust 2006-HE5 Mortgage Pass-Through Certificates, Series 2006-HE5
MROGN2006HE6	Morgan Stanley ABS Capital I Inc. Trust 2006-HE6 Mortgage Pass-Through Certificates, Series 2006-HE6
MROGN2006HE7	Morgan Stanley ABS Capital I Inc. Trust 2006-HE7 Mortgage Pass-Through Certificates, Series 2006-HE7
MROGN20071	Morgan Stanley Home Equity Loan Trust 2007-1 Mortgage Pass-Through Certificates, Series 2007-1
MROGN2007HE2	Morgan Stanley ABS Capital I Inc. Trust 2007-HE2 Mortgage Pass-Through Certificates, Series 2007-HE2
MROGN2007HE3	Morgan Stanley ABS Capital I Inc. Trust 2007-HE3 Mortgage Pass-Through Certificates, Series 2007-HE3
MSAC 2006-HE1	Morgan Stanley ABS Capital I Inc. Trust 2006-HE1 Mortgage Pass-Through Certificates, Series 2006-HE1
MSAC 2006-HE2	Morgan Stanley ABS Capital I Inc. Trust 2006-HE2 Mortgage Pass-Through Certificates, Series 2006-HE2
MSAC 2006-HE8	Morgan Stanley ABS Capital I Inc. Trust 2006-HE8 Mortgage Pass-Through Certificates, Series 2006-HE8
MSAC 2006-WMC1	Morgan Stanley ABS Capital I Inc. Trust 2006-WMC1 Mortgage Pass-Through Certificates, Series 2006-WMC1
MSAC 2006-WMC2	Morgan Stanley ABS Capital I Inc. Trust 2006-WMC2 Mortgage Pass-Through Certificates, Series 2006-WMC2
MSAC 2007-HE5	Morgan Stanley ABS Capital I Inc. Trust 2007-HE5 Mortgage Pass-Through Certificates, Series 2007-HE5
MSAC 2007-HE6	Morgan Stanley ABS Capital I Inc. Trust 2007-HE6 Mortgage Pass-Through Certificates, Series 2007-HE6
MSAC 2007-HE7	Morgan Stanley ABS Capital I Inc. Trust 2007-HE7 Mortgage Pass-Through Certificates, Series 2007-HE7
MSBAM 12-C6	Morgan Stanley Bank of America Merrill Lynch Trust 2012-C6, Commercial Mortgage Pass-Through Certificates, Series 2012-C6
MSBAM 13-C8	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C8, Commercial Mortgage Pass-Through Certificates, Series 2013-C8
MSBAM 13-C9	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C9, Commercial Mortgage Pass-Through Certificates, Series 2013-C9
MSBAM14-C19	Morgan Stanley Bank of America Merrill Lynch Trust 2014-C19, Commercial Mortgage Pass-Through Certificates, Series 2014-C19
MSBAM15-C23	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C23, Commercial Mortgage Pass-Through Certificates, Series 2015-C23
MSBAM 2013-C10	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C10, Commercial Mortgage Pass-Through Certificates, Series 2013-C10
MSBAM2013-C11	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C11, Commercial Mortgage Pass-Through Certificates, Series 2013-C11
MSBAM2013-C12	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C12, Commercial Mortgage Pass-Through Certificates, Series 2013-C12
MSBAM2013-C13	Morgan Stanley Bank of America Merrill Lynch Trust 2013-C13, Commercial Mortgage Pass-Through Certificates, Series 2013-C13
MSBAM2014-C14	Morgan Stanley Bank of America Merrill Lynch Trust 2014-C14, Commercial Mortgage Pass-Through Certificates, Series 2014-C14
MSBAM2014C17	Morgan Stanley Bank of America Merrill Lynch Trust 2014-C17 Commercial Mortgage Pass-Through Certificates Series 2014-C17
MSBAM2015-C20	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C20, Commercial Mortgage Pass-Through Certificates, Series 2015-C20
MSBAM2015-C21	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C21, Commercial Mortgage Pass-Through Certificates, Series 2015-C21
MSBAM2015-C22	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C22, Commercial Mortgage Pass-Through Certificates, Series 2015-C22
MSBAM2015-C24	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C24, Commercial Mortgage Pass-Through Certificates, Series 2015-C24
MSBAM2015-C26	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C26, Commercial Mortgage Pass-Through Certificates, Series 2015-C26
MSBAM2015-C27	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C27, Commercial Mortgage Pass-Through Certificates, Series 2015-C27
MSBAM2016-C28	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C28, Commercial Mortgage Pass-Through Certificates, Series 2016-C28
MSBAM2016-C29	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C29, Commercial Mortgage Pass-Through Certificates Series 2016-C29
MSBAM2016-C30	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C30 Commercial Mortgage Pass-Through Certificates, Series 2016-C30
MSBAM2016-C31	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C31, Commercial Mortgage Pass-Through Certificates, Series 2016-C31
MSBAM2016-C32	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C32, Commercial Mortgage Pass-Through Certificates, Series 2016-C32
MSBAM 2017-C33	Morgan Stanley Bank of America Merrill Lynch Trust 2017-C33, Commercial Mortgage Pass-Through Certificates Series 2017-C33
MSBAM2017-C34	Morgan Stanley Bank of America Merrill Lynch Trust 2017-C34, Commercial Mortgage Pass-Through Certificates, Series 2017-C34
MSBAM2025-SC1	Morgan Stanley Bank of America Merrill Lynch Trust 2025-SC1, Commercial Mortgage Pass-Through Certificates, Series 2025-SC1
MSBAM2025-SC2	Morgan Stanley Bank of America Merrill Lynch Trust 2025-SC2 Commercial Mortgage Pass-Through Certificates, Series 2025-SC2
MSBAM2025-C35	Morgan Stanley Bank of America Merrill Lynch Trust 2025-C35, Commercial Mortgage Pass-Through Certificates, Series 2025-C35
MSC2015-MS1	Morgan Stanley Capital I Trust 2015-MS1, Commercial Mortgage Pass-Through Certificates, Series 2015-MS1
MSC2016-BNK2	Morgan Stanley Capital I Trust 2016-BNK2, Commercial Mortgage Pass Through Certificates, Series 2016-BNK2
MSC2017-BNK5	BANK 2017-BNK5 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK5
MSC2017-BNK8	BANK 2017-BNK8 Commercial Mortgage Pass Through Certificates Series 2017-BNK8
MSC2017-H1	Morgan Stanley Capital I Trust 2017-H1 Commercial Mortgage Pass-Through Certificates, Series 2017-H1

MSC2017-HR2	Morgan Stanley Capital I Trust 2017-HR2 Commercial Mortgage Pass-Through Certificates, Series 2017-HR2
MSC2018-BNK14	BANK 2018-BNK14 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK14
MSC2018-H3	Morgan Stanley Capital I Trust 2018-H3, Commercial Mortgage Pass-Through Certificates, Series 2018-H3
MSC2018-H4	Morgan Stanley Capital I Trust 2018-H4 Commercial Mortgage Pass-Through Certificates, Series 2018-H4
MSC2018-L1	Morgan Stanley Capital I Trust 2018-L1 Commercial Mortgage Pass-Through Certificates, Series 2018-L1
MSC2019-BNK17	BANK 2019-BNK17 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK17
MSC2019-BNK20	BANK 2019-BNK20 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK20
MSC2019-H6	Morgan Stanley Capital I Trust 2019-H6 Commercial Mortgage Pass-Through Certificates, Series 2019-H6
MSC2019-H7	Morgan Stanley Capital I Trust 2019-H7 Commercial Mortgage Pass-Through Certificates, Series 2019-H7
MSC2019-L2	Morgan Stanley Capital I Trust 2019-L2 Commercial Mortgage Pass-Through Certificates, Series 2019-L2
MSC2019-L3	Morgan Stanley Capital I Trust 2019-L3 Commercial Mortgage Pass-Through Certificates, Series 2019-L3
MSC2020-HR8	Morgan Stanley Capital I Trust 2020-HR8 Commercial Mortgage Pass-Through Certificates, Series 2020-HR8
MSC2020-L4	Morgan Stanley Capital I Trust 2020-L4 Commercial Mortgage Pass-Through Certificates, Series 2020-L4
MSC2021-L5	Morgan Stanley Capital I Trust 2021-L5 Commercial Mortgage Pass-Through Certificates Series 2021-L5
MSC2021-L6	Morgan Stanley Capital I Trust 2021-L6 Commercial Mortgage Pass-Through Certificates Series 2021-L6
MSC2021-L7	Morgan Stanley Capital I Trust 2021-L7 Commercial Mortgage Pass-Through Certificates Series 2021-L7
MSC2021-PLZA	Morgan Stanley Capital I Trust 2021-PLZA Commercial Mortgage Pass-Through Certificates, Series 2021-PLZA
MSC2022-L8	Morgan Stanley Capital I Trust 2022-L8 Commercial Mortgage Pass-Through Certificates, Series 2022-L8
MSCC 11-C3	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2011-C3
MSCC 12-C4	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates, Series 2012-C4
MSCFG2015-ALDR	MSCCG Trust 2015-ALDR Commercial Mortgage Pass-Through Certificates, Series 2015-ALDR
MSCI2015-UBS8	Morgan Stanley Capital I Trust 2015-UBS8, Commercial Mortgage Pass-Through Certificates, Series 2015-UBS8
MSCI2016-PSQ	Morgan Stanley Capital I Trust 2016-PSQ Commercial Mortgage Pass-Through Certificates, Series 2016-PSQ
MSCI2016-UBS11	Morgan Stanley Capital I Trust 2016-UBS11, Commercial Mortgage Pass-Through Certificates Series 2016-UBS11
MSCI2016-UBS12	Morgan Stanley Capital I Trust 2016-UBS12, Commercial Mortgage Pass-Through Certificates Series 2016-UBS12
MSCI2016-UBS9	Morgan Stanley Capital I Trust 2016-UBS9 Commercial Mortgage Pass-Through Certificates, Series 2016-UBS9
MSCI2017-237P	MSSG Trust 2017-237P, Commercial Mortgage Pass-Through Certificates, Series 2017-237P
MSCI2017-CC	BXP Trust 2017-CC Commercial Mortgage Pass-Through Certificates, Series 2017-CC
MSCI2017-GM	BXP Trust 2017-GM, Commercial Mortgage Pass-Through Certificates, Series 2017-GM
MSCI2018-MP	Morgan Stanley Capital I Trust 2018-MP Commercial Mortgage Pass-Through Certificates, Series 2018-MP
MSCI2020-CNP	Morgan Stanley Capital I Trust 2020-CNP Commercial Mortgage Pass-Through Certificates, Series 2020-CNP
MSM 2006-11	Morgan Stanley Mortgage Loan Trust 2006-11 Mortgage Pass-Through Certificates, Series 2006-11
MSM 2006-3AR	Morgan Stanley Mortgage Loan Trust 2006-3AR Mortgage Pass-Through Certificates, Series 2006-3AR
MSM 2006-5AR	Morgan Stanley Mortgage Loan Trust 2006-5AR Mortgage Pass-Through Certificates, Series 2006-5AR
MSM 2006-6AR	Morgan Stanley Mortgage Loan Trust 2006-6AR Mortgage Pass-Through Certificates, Series 2006-6AR
MSM 2006-7	Morgan Stanley Mortgage Loan Trust 2006-7 Mortgage Pass-Through Certificates, Series 2006-7
MSM 2006-8AR	Morgan Stanley Mortgage Loan Trust 2006-8AR Mortgage Pass-Through Certificates, Series 2006-8AR
MSM 2007-12	Morgan Stanley Mortgage Loan Trust 2007-12 Mortgage Pass-Through Certificates, Series 2007-12
MSM 2007-13	Morgan Stanley Mortgage Loan Trust 2007-13 Mortgage Pass-Through Certificates, Series 2007-13
MSM 2007-14AR	Morgan Stanley Mortgage Loan Trust 2007-14AR Mortgage Pass-Through Certificates, Series 2007-14AR
MSSTI 2007-1	Morgan Stanley Structured Trust I 2007-1 Asset-Backed Certificates, Series 2007-1
MSWF2023-1	MSWF Commercial Mortgage Trust 2023-1 Commercial Mortgage Pass-Through Certificates Series 2023-1
MSWF2023-2	MSWF Commercial Mortgage Trust 2023-2 Commercial Mortgage Pass-Through Certificates, Series 2023-2
NAAC 2006-AF1	Nomura Asset Acceptance Corporation Mortgage Pass-Through Certificates, Series 2006-AF1
NAAC 2006-AF2	Nomura Asset Acceptance Corporation Mortgage Pass-Through Certificates, Series 2006-AF2
NAAC 2006-API	Nomura Asset Acceptance Corporation Mortgage Pass-Through Certificates, Series 2006-API
NAAC 2006-AR1	Nomura Asset Acceptance Corporation Mortgage Pass-Through Certificates, Series 2006-AR1
NAAC 2006-AR2	Nomura Asset Acceptance Corporation Mortgage Pass-Through Certificates, Series 2006-AR2
NAAC 2006-AR3	Nomura Asset Acceptance Corporation Mortgage Pass-Through Certificates, Series 2006-AR3
NAAC 2006-AR4	Nomura Asset Acceptance Corporation Mortgage Pass-Through Certificates, Series 2006-AR4
NAAC 2006-WF1	Nomura Asset Acceptance Corporation Mortgage Pass-Through Certificates, Series 2006-WF1
NAAC 2007-1	Nomura Asset Acceptance Corporation Mortgage Pass-Through Certificates, Series 2007-1
NAAC 2007-2	Nomura Asset Acceptance Corporation Mortgage Pass-Through Certificates, Series 2007-2
NAAC 2007-3	Nomura Asset Acceptance Corporation Mortgage Pass-Through Certificates, Series 2007-3
NCMS2017-75B	Natixis Commercial Mortgage Securities Trust 2017-75B Commercial Mortgage Pass-Through Certificates, Series 2017-75B
NCMS2018-ALXA	Natixis Commercial Mortgage Securities Trust 2018-ALXA, Commercial Mortgage Pass-Through Certificates, Series 2018-ALXA
NCMS2018-OSS	Natixis Commercial Mortgage Securities Trust 2018-OSS Commercial Mortgage Pass Through Certificates Series 2018-OSS
NCMS2018-TSQ	20 Times Square Trust 2018-20TS, Commercial Mortgage Pass-Through Certificates, Series 2018-20TS
NCMS2019-10K	Natixis Commercial Mortgage Securities Trust 2019-10K, Commercial Mortgage Pass-Through Certificates, Series 2019-10K
NCMS2019-FAME	Natixis Commercial Mortgage Securities Trust 2019-FAME, Commercial Mortgage Pass-Through Certificates, Series 2019-FAME
NCMS2019-LVL	Natixis Commercial Mortgage Securities Trust 2019-LVL, Commercial Mortgage Pass-Through Certificates, Series 2019-LVL
NCMS2019-NEMA	Natixis Commercial Mortgage Securities Trust 2019-NEMA, Commercial Mortgage Pass-Through Certificates, Series 2019-NEMA
NCMT 2008-1	National City Mortgage Capital Trust 2008-1 Mortgage Pass-Through Certificates, Series 2008-1
NEWCASTLE 2007-1	New Castle Mortgage Securities Trust 2007-1 Asset-Backed Notes, Series 2007-1
NHEL 2006-AF1	Nomura Home Equity Loan, Inc., Asset-Backed Certificates, Series 2006-AF1
NHEL 2006-FM1	Nomura Home Equity Loan, Inc., Asset-Backed Certificates, Series 2006-FM1
NHEL 2006-FM2	Nomura Home Equity Loan, Inc., Asset-Backed Certificates, Series 2006-FM2
NHEL 2006-HE1	Nomura Home Equity Loan, Inc., Asset-Backed Certificates, Series 2006-HE1
NHEL 2006-HE2	Nomura Home Equity Loan, Inc., Asset-Backed Certificates, Series 2006-HE2
NHEL 2006-HE3	Nomura Home Equity Loan, Inc., Asset-Backed Certificates, Series 2006-HE3
NHEL 2006-WF1	Nomura Home Equity Loan, Inc., Asset-Backed Certificates, Series 2006-WF1
NHEL 2007-1	Nomura Home Equity Loan, Inc., Asset-Backed Certificates, Series 2007-1
NHEL 2007-2	Nomura Home Equity Loan, Inc., Asset-Backed Certificates, Series 2007-2
NHEL 2007-3	Nomura Home Equity Loan, Inc., Asset-Backed Certificates, Series 2007-3
NJ2023-GSP	NJ Trust 2023-GSP Commercial Mortgage Pass-Through Certificates, Series 2023-GSP

NRPM2013-1	NRP Mortgage Trust 2013-1 Mortgage Pass-Through Certificates, Series 2013-1
OPTION ONE 2006-1	Option One Mortgage Loan Trust 2006-1 Asset-Backed Certificates, Series 2006-1
OPTION ONE 2006-2	Option One Mortgage Loan Trust 2006-2 Asset-Backed Certificates, Series 2006-2
OPTION ONE 2006-3	Option One Mortgage Loan Trust 2006-3 Asset-Backed Certificates, Series 2006-3
OPTION ONE 2007-1	Option One Mortgage Loan Trust 2007-1 Asset-Backed Certificates, Series 2007-1
OPTION ONE 2007-2	Option One Mortgage Loan Trust 2007-2 Asset-Backed Certificates, Series 2007-2
OPTION ONE 2007-3	Option One Mortgage Loan Trust 2007-3 Asset-Backed Certificates, Series 2007-3
OPTION ONE 2007-4	Option One Mortgage Loan Trust 2007-4 Asset-Backed Certificates, Series 2007-4
OPTION ONE 2007-5	Option One Mortgage Loan Trust 2007-5 Asset-Backed Certificates, Series 2007-5
OPTION ONE 2007-6	Option One Mortgage Loan Trust 2007-6 Asset-Backed Certificates, Series 2007-6
OPTION ONE 2007-CP1	Option One Mortgage Loan Trust 2007-CP1 Asset-Backed Certificates, Series 2007-CP1
OPTION ONE 2007-FXD1	Option One Mortgage Loan Trust 2007-FXD1 Asset-Backed Certificates, Series 2007-FXD1
OPTION ONE 2007-FXD2	Option One Mortgage Loan Trust 2007-FXD2 Asset-Backed Certificates, Series 2007-FXD2
OPTION ONE 2007-HL1	Option One Mortgage Loan Trust 2007-HL1 Asset-Backed Certificates, Series 2007-HL1
OWNIT 2006-2	OWNIT Mortgage Loan Trust, Mortgage Loan Asset-Backed Certificates, Series 2006-2
PC 2006-1	People's Financial Realty Mortgage Securities Trust Series 2006-1, Mortgage Pass-Through Certificates, Series 2006-1
PIH 2008-CM1	PIH Mortgage Trust, Series 2008-CM1 Mortgage-Backed Notes, Series 2008-CM1
PIH 2008-CM2	PIH Mortgage Trust, Series 2008-CM2 Mortgage-Backed Notes, Series 2008-CM2
PIHAM 2007-1	PIH Alternative Mortgage Trust, Series 2007-1, Mortgage Pass-Through Certificates, Series 2007-1
PIHAM 2007-2	PIH Alternative Mortgage Trust, Series 2007-2, Mortgage Pass-Through Certificates, Series 2007-2
PIHAM 2007-3	PIH Alternative Mortgage Trust, Series 2007-3, Mortgage Pass-Through Certificates, Series 2007-3
PRIME 2006-1	Structured Asset Mortgage Investments II Inc., Prime Mortgage Trust, Certificates, Series 2006-1
PRIME 2006-CL1	Prime Mortgage Trust 2006-CL1, Mortgage Pass-Through Certificates, Series 2006-CL1
RBSGC 2007-B	RBSGC Mortgage Loan Trust 2007-B, Mortgage Loan Pass-Through Certificates, Series 2007-B
RENAISSANCE 2006-1	Renaissance Mortgage Acceptance Corp., Home Equity Loan Asset-Backed Certificates, Series 2006-1
RENAISSANCE 2006-2	Renaissance Mortgage Acceptance Corp., Home Equity Loan Asset-Backed Certificates, Series 2006-2
RENAISSANCE 2006-3	Renaissance Mortgage Acceptance Corp., Home Equity Loan Asset-Backed Certificates, Series 2006-3
RENAISSANCE 2006-4	Renaissance Mortgage Acceptance Corp., Home Equity Loan Asset-Backed Certificates, Series 2006-4
RENAISSANCE 2007-1	Renaissance Mortgage Acceptance Corp., Home Equity Loan Asset-Backed Certificates, Series 2007-1
RENAISSANCE 2007-2	Renaissance Mortgage Acceptance Corp., Home Equity Loan Asset-Backed Certificates, Series 2007-2
RENAISSANCE 2007-3	Renaissance Mortgage Acceptance Corp., Home Equity Loan Asset-Backed Certificates, Series 2007-3
RFCO2006EFC1	Mortgage Asset-Backed Pass-Through Certificates, Series 2006-EFC1
RFCO2006EFC2	Mortgage Asset-Backed Pass-Through Certificates, Series 2006-EFC2
RFCO2006EMX1	Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-EMX1
RFCO2006EMX2	Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-EMX2
RFCO2006EMX3	Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-EMX3
RFCO2006EMX4	Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-EMX4
RFCO2006EMX5	Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-EMX5
RFCO2006EMX6	Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-EMX6
RFCO2006EMX7	Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-EMX7
RFCO2006EMX8	Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-EMX8
RFCO2006EMX9	Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-EMX9
RFCO2006H1	Residential Funding Mortgage Securities II, Inc. Home Loan-Backed Certificates Series 2006-H1
RFCO2006H2	Residential Funding Mortgage Securities II, Inc. Home Loan-Backed Certificates Series 2006-H2
RFCO2006H3	Residential Funding Mortgage Securities II, Inc. Home Loan-Backed Notes Series 2006-H3
RFCO2006H4	Residential Funding Mortgage Securities II, Inc. Home Loan Trust 2006-H4
RFCO2006H5	Residential Funding Mortgage Securities II, Inc. Home Loan-Backed Certificates Series 2006-H5
RFCO2006HSA1	Residential Funding Mortgage Securities II, Inc. Home Equity Loan Pass-Through Certificates Series 2006-HSA1
RFCO2006HSA2	Residential Funding Mortgage Securities II, Inc. Home Equity Loan-Backed Certificates Series 2006-HSA2
RFCO2006HSA3	Residential Funding Mortgage Securities II, Inc. Home Equity Loan-Backed Certificates Series 2006-HSA3
RFCO2006KS1	Residential Asset Securities Corporation Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-KS1
RFCO2006KS2	Residential Asset Securities Corporation Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-KS2
RFCO2006KS3	Residential Asset Securities Corporation Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-KS3
RFCO2006KS4	Residential Asset Securities Corporation Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-KS4
RFCO2006KS5	Residential Asset Securities Corporation Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-KS5
RFCO2006KS6	Residential Asset Securities Corporation Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-KS6
RFCO2006KS7	Residential Asset Securities Corporation Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-KS7
RFCO2006KS8	Residential Asset Securities Corporation Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-KS8
RFCO2006KS9	Residential Asset Securities Corporation Home Equity Mortgage Asset-Backed Pass-Through Certificates Series 2006-KS9
RFCO2006NC1	Residential Asset Mortgage Products, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-NC1
RFCO2006NC2	Residential Asset Mortgage Products, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-NC2
RFCO2006NC3	Residential Asset Mortgage Products, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-NC3
RFCO2006QA1	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QA1
RFCO2006QA10	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QA10
RFCO2006QA11	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QA11
RFCO2006QA2	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QA2
RFCO2006QA3	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QA3
RFCO2006QA4	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QA4
RFCO2006QA5	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QA5
RFCO2006QA6	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QA6
RFCO2006QA7	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QA7
RFCO2006QA8	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QA8
RFCO2006QA9	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QA9
RFCO2006QH1	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QH1
RFCO2006QO1	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QO1
RFCO2006QO10	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QO10
RFCO2006QO2	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QO2
RFCO2006QO3	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QO3
RFCO2006QO4	Residential Accredit Loans, Inc. Mortgage Asset-Backed Pass-Through Certificates Series 2006-QO4

SMTS2019-CH2	Sequoia Mortgage Trust 2019-CH2 Mortgage Pass-Through Certificates Series 2019-CH2
SMTS2019-CH3	Sequoia Mortgage Trust 2019-CH3 Mortgage Pass-Through Certificates Series 2019-CH3
SMTS2020-1	Redwood SEMT 2020-1
SMTS2020-2	Redwood SEMT 2020-2
SMTS2020-3	Redwood SEMT 2020-3
SMTS2020-4	SEQUOIA MORTGAGE TRUST 2020-4
SMTS2020-5	Sequoia Mortgage Trust 2020-5
SMTS2020-MC1	Sequoia Residential Funding, Inc.
SMTS2021-1	Sequoia Residential Funding, Inc.
SMTS2021-2	Sequoia Residential Funding, Inc.
SMTS2021-3	Sequoia Residential Funding, Inc. Sequoia Mortgage Trust 2021-3
SMTS2021-4	Sequoia Residential Funding, Inc.
SMTS2021-5	Sequoia Residential Funding, Inc.
SMTS2021-6	SEQUOIA RESIDENTIAL FUNDING, INC.
SMTS2021-7	SEQUOIA RESIDENTIAL FUNDING, INC.
SMTS2021-8	Sequoia Residential Funding, Inc.
SMTS2021-9	Sequoia Residential Funding, Inc.
SMTS2022-1	Sequoia Residential Funding, Inc.
SMTS2023-1	Sequoia Residential Funding, Inc. Sequoia Mortgage Trust 2023-1
SMTS2023-2	Sequoia Mortgage Trust 2023-2 Sequoia Residential Funding, Inc.
SMTS2023-3	Sequoia Mortgage Trust 2023-3 Sequoia Residential Funding, Inc.
SMTS2023-4	Sequoia Mortgage Trust 2023-4 Sequoia Residential Funding, Inc.
SMTS2023-5	Sequoia Mortgage Trust 2023-5 Sequoia Residential Funding, Inc.
SMTS2024-1	Sequoia Mortgage Trust 2024-1 Sequoia Residential Funding, Inc.
SMTS2024-10	Sequoia Residential Funding, Inc. Sequoia Mortgage Trust 2024-10
SMTS2024-2	Sequoia Mortgage Trust 2024-2 Sequoia Residential Funding, Inc.
SMTS2024-3	Sequoia Mortgage Trust 2024-3 Sequoia Residential Funding, Inc.
SMTS2024-4	Sequoia Mortgage Trust 2024-4 Sequoia Residential Funding, Inc.
SMTS2024-5	Sequoia Residential Funding, Inc. Sequoia Mortgage Trust 2024-5
SMTS2024-6	Sequoia Mortgage Trust 2024-6 Sequoia Residential Funding, Inc.
SMTS2024-7	Sequoia Mortgage Trust 2024-7 Sequoia Residential Funding, Inc.
SMTS2024-8	Sequoia Mortgage Trust 2024-8 Sequoia Residential Funding, Inc.
SMTS2024-9	Sequoia Mortgage Trust 2024-9 Sequoia Residential Funding, Inc.
SMTS2024-HYB1	Sequoia Mortgage Trust 2024-HYB1 Sequoia Residential Funding, Inc.
SMTS2024-INV1	Sequoia Residential Funding, Inc. Sequoia Mortgage Trust 2024-INV1
SMTS2025-1	Sequoia Mortgage Trust 2025-1 Sequoia Residential Funding, Inc.
SMTS2025-10	Sequoia Mortgage Trust 2025-10 Sequoia Residential Funding, Inc.
SMTS2025-11	Sequoia Mortgage Trust 2025-11 Sequoia Residential Funding, Inc.
SMTS2025-12	Sequoia Mortgage Trust 2025-12 Sequoia Residential Funding, Inc.
SMTS2025-13	Sequoia Mortgage Trust 2025-13 Sequoia Residential Funding, Inc.
SMTS2025-2	Sequoia Mortgage Trust 2025-2 Sequoia Residential Funding, Inc.
SMTS2025-3	Sequoia Residential Funding, Inc. Sequoia Mortgage Trust 2025-3
SMTS2025-4	Sequoia Mortgage Trust 2025-4 Sequoia Residential Funding, Inc.
SMTS2025-5	Sequoia Mortgage Trust 2025-5 Sequoia Residential Funding, Inc.
SMTS2025-6	Sequoia Residential Funding, Inc. Sequoia Mortgage Trust 2025-6
SMTS2025-7	Sequoia Mortgage Trust 2025-7 Sequoia Residential Funding, Inc.
SMTS2025-8	Sequoia Mortgage Trust 2025-8 Sequoia Residential Funding, Inc.
SMTS2025-9	Sequoia Mortgage Trust 2025-9 Sequoia Residential Funding, Inc.
SMTS2025-HYB1	Sequoia Mortgage Trust 2025-HYB1 Sequoia Residential Funding, Inc.
SMTS2025-S1	Sequoia Mortgage Trust 2025-S1 Sequoia Residential Funding, Inc.
SMTS2025-S2	Sequoia Mortgage Trust 2025-S2 Sequoia Residential Funding, Inc.
STARM 2007-2	STARM Mortgage Loan Trust 2007-2 Mortgage Pass-Through Certificates, Series 2007-2
STARM 2007-3	STARM Mortgage Loan Trust 2007-3 Mortgage Pass-Through Certificates, Series 2007-3
SUM202-BVUE	SUMIT 202-BVUE Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 202-BVUE
SV 2007-OPT1	Soundview Home Loan Trust 2007-OPT1 Asset-Backed Certificates, Series 2007-OPT1
SV 2007-OPT2	Soundview Home Loan Trust 2007-OPT2 Asset-Backed Certificates, Series 2007-OPT2
SV 2007-OPT3	Soundview Home Loan Trust 2007-OPT3 Asset-Backed Certificates, Series 2007-OPT3
SV 2007-OPT4	Soundview Home Loan Trust 2007-OPT4 Asset-Backed Certificates, Series 2007-OPT4
SV 2007-OPT5	Soundview Home Loan Trust 2007-OPT5 Asset-Backed Certificates, Series 2007-OPT5
SYCA2025-WAG	SYCA Commercial Mortgage Trust 2025-WAG, Commercial Mortgage Pass-Through Certificates, Series 2025-WAG
TYSN2023-CRNR	TYSN 2023-CRNR Mortgage Trust Commercial Mortgage Pass-Through Certificates
UBS2017-C1	UBS Commercial Mortgage Trust 2017-C1 Commercial Mortgage Pass- Through Certificates Series 2017-C1 Series 2017-C1
UBS2017-C2	UBS Commercial Mortgage Trust 2017-C2 Commercial Mortgage Pass- Through Certificates Series 2017-C2 Series 2017-C2
UBS2017-C3	UBS Commercial Mortgage Trust 2017-C3 Commercial Mortgage Pass- Through Certificates Series 2017-C3 Series 2017-C3
UBS2017-C4	UBS Commercial Mortgage Trust 2017-C4 Commercial Mortgage Pass- Through Certificates Series 2017-C4 Series 2017-C4
UBS2017-C5	UBS Commercial Mortgage Trust 2017-C5 Commercial Mortgage Pass- Through Certificates Series 2017-C5
UBS2017-C6	UBS Commercial Mortgage Trust 2017-C6 Commercial Mortgage Pass- Through Certificates Series 2017-C6 Series 2017-C6
UBS2017-C7	UBS Commercial Mortgage Trust 2017-C7 Commercial Mortgage Pass- Through Certificates Series 2017-C7
UBS 2018-C10	UBS Commercial Mortgage Trust 2018-C10 Commercial Mortgage Pass- Through Certificates Series 2018-C10
UBS2018-C11	UBS Commercial Mortgage Trust 2018-C11 Commercial Mortgage Pass- Through Certificates Series 2018-C11
UBS2018-C12	UBS Commercial Mortgage Trust 2018-C12 Commercial Mortgage Pass- Through Certificates Series 2018-C12
UBS2018-C13	UBS Commercial Mortgage Trust 2018-C13 Commercial Mortgage Pass- Through Certificates Series 2018-C13
UBS2018-C14	UBS Commercial Mortgage Trust 2018-C14 Commercial Mortgage Pass- Through Certificates Series 2018-C14
UBS2018-C15	UBS Commercial Mortgage Trust 2018-C15 Commercial Mortgage Pass- Through Certificates Series 2018-C15
UBS2018-C8	UBS Commercial Mortgage Trust 2018-C8 Commercial Mortgage Pass- Through Certificates Series 2018-C8
UBS2018-C9	UBS Commercial Mortgage Trust 2018-C9 Commercial Mortgage Pass- Through Certificates Series 2018-C9
UBS2019-C16	UBS Commercial Mortgage Trust 2019-C16 Commercial Mortgage Pass- Through Certificates Series 2019-C16
UBS2019-C17	UBS Commercial Mortgage Trust 2019-C17 Commercial Mortgage Pass- Through Certificates Series 2019-C17
UBS2019-C18	UBS Commercial Mortgage Trust 2019-C18, Commercial Mortgage Pass- Through Certificates Series 2019-C18
VNDO TRUST 2016-350P	VNDO Trust 2016-350P Commercial Mortgage Pass-Through Certificates, Series 2016-350P
VRTX2025-HQ	VRTX Trust 2025-HQ Commercial Mortgage Pass-Through Certificates, Series 2025-HQ
WACHOVIA 2006-C23	Wachovia Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-C23
WACHOVIA 2006-C28	Wachovia Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-C28
WACHOVIA 2006-C29	Wachovia Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2006-C29
WFALT 2007-PA1	Wells Fargo Alternative Loan 2007-PA1 Trust Mortgage Asset-Backed Pass-Through Certificates, Series 2007-PA1
WFALT 2007-PA2	Wells Fargo Alternative Loan 2007-PA2 Trust Mortgage Asset-Backed Pass-Through Certificates, Series 2007-PA2
WFALT 2007-PA3	Wells Fargo Alternative Loan 2007-PA3 Trust Mortgage Asset-Backed Pass-Through Certificates, Series 2007-PA3
WFALT 2007-PA4	Wells Fargo Alternative Loan 2007-PA4 Trust Mortgage Asset-Backed Pass-Through Certificates, Series 2007-PA4
WFALT 2007-PA5	Wells Fargo Alternative Loan 2007-PA5 Trust Mortgage Asset-Backed Pass-Through Certificates, Series 2007-PA5
WFALT 2007-PA6	Wells Fargo Alternative Loan 2007-PA6 Trust Mortgage Asset-Backed Pass-Through Certificates, Series 2007-PA6

WFRBS2014-C25	RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C25
WFRBS2014-LC14	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-LC14
WHARF2025-DC	WHARF Commercial Mortgage Trust 2025-DC Commercial Mortgage Pass-Through Certificates, Series 2025-DC
WCMWMC20061	GE-WMC Mortgage Securities LLC Asset-Backed Pass-Through Certificates, Series 2006-1

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Report of Independent Registered Public Accounting Firm

The Board of Directors
Wells Fargo Bank, National Association:

We have examined management's assertion, included in the accompanying Management's Assessment of Compliance with Applicable Servicing Criteria, that Wells Fargo Commercial Mortgage Servicing, a division of Wells Fargo Bank, National Association, (the Company) complied with the servicing criteria set forth in Item 1122(d) of the Securities and Exchange Commission's Regulation AB for asset-backed securities and other structures backed by commercial and multifamily loans as listed in Appendix A of Management's Assessment of Compliance with Applicable Servicing Criteria (the Platform), except for servicing criteria 1122(d)(1)(iii), 1122(d)(3)(i)(B-D), 1122(d)(3)(ii-v), 1122(d)(4)(ii), and 1122(d)(4)(xv), which the Company has determined are not applicable to the activities it performs with respect to the Platform (the Applicable Servicing Criteria), as of and for the period from January 1, 2025 through February 28, 2025 (the Period) (Management's Assertion). The Company has determined that servicing criterion 1122(d)(4)(xi) is applicable to the activities the Company performs with respect to the Platform, except for certain tax payment activities that the Company has engaged a third party to perform. With respect to servicing criterion 1122(d)(4)(iii), the Company has determined that there were no activities performed during the Period with respect to the Platform, because there were no occurrences of events that would require the Company to perform such activities. Management is responsible for the Company's compliance with the Applicable Servicing Criteria for the Platform. Our responsibility is to express an opinion on Management's Assertion about the Company's compliance with the Applicable Servicing Criteria for the Platform based on our examination.

Our examination was conducted in accordance with the standards of the Public Company Accounting Oversight Board (United States) and in accordance with attestation standards established by the American Institute of Certified Public Accountants to obtain reasonable assurance and, accordingly, included examining, on a test basis, evidence about the Company's compliance with the Applicable Servicing Criteria for the Platform and performing such other procedures as we considered necessary in the circumstances. Our examination included testing selected asset-backed transactions and securities that comprise the Platform, testing selected servicing activities related to the Platform, and determining whether the Company processed those selected transactions and performed those selected activities in compliance with the Applicable Servicing Criteria. Furthermore, our procedures were limited to the selected transactions and servicing activities performed by the Company during the period covered by this report. Our procedures were not designed to determine whether errors may have occurred either prior to or subsequent to our tests that may have affected the balances or amounts calculated or reported by the Company during the period covered by this report for the selected transactions or any other transactions. We believe that our examination provides a reasonable basis for our opinion. Our examination does not provide a legal determination on the Company's compliance with the Applicable Servicing Criteria for the Platform.

We are required to be independent and to meet our other ethical responsibilities in accordance with relevant ethical requirements relating to the examination engagement.

As described in the accompanying Management's Assessment of Compliance with Applicable Servicing Criteria, for servicing criteria 1122(d)(4)(i) and 1122(d)(4)(vi), the Company has engaged various vendors to perform the activities required by these servicing criteria. The Company has determined that none of these vendors is considered a "servicer" as defined in Item 1101(i) of Regulation AB, and the Company has elected to take responsibility for assessing compliance with the servicing criteria applicable to each vendor as permitted by the SEC's Compliance and Disclosure Interpretation (C&DI) 200.06, Vendors Engaged by Servicers (C&DI 200.06). As permitted by C&DI 200.06, the Company has asserted that it has policies and procedures in place designed to provide reasonable assurance that the vendors' activities comply in all material respects with the servicing criteria applicable to each vendor. The Company is solely responsible for determining that it meets the SEC requirements to apply C&DI 200.06 for the vendors and related servicing criteria as described in its assertion, and we performed no procedures with respect to the Company's eligibility to apply C&DI 200.06.

In our opinion, Management's Assertion that Wells Fargo Commercial Mortgage Servicing, a division of Wells Fargo Bank, National Association, complied with the aforementioned Applicable Servicing Criteria, including servicing criteria 1122(d)(4)(i) and 1122(d)(4)(vi) for which compliance is determined based on C&DI 200.06 as described above, as of and for the Period is fairly stated, in all material respects.

/s/ KPMG LLP

Charlotte, North Carolina
March 12, 2026

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Report of Independent Registered Public Accounting Firm

The Board of Directors
Trimont LLC:

We have examined management's assertion, included in the accompanying Management's Assessment of Compliance with Applicable Servicing Criteria, that Trimont LLC (the Company) complied with the servicing criteria set forth in Item 1122(d) of the Securities and Exchange Commission's Regulation AB for asset-backed securities and other structures backed by commercial and multifamily loans as listed in Appendix A of Management's Assessment of Compliance with Applicable Servicing Criteria (the Platform), except for servicing criteria 1122(d)(1)(iii), 1122(d)(3)(j)(B-D), 1122(d)(3)(ii-iv), 1122(d)(4)(ii), and 1122(d)(4)(iv), which the Company has determined are not applicable to the activities it performs with respect to the Platform (the Applicable Servicing Criteria), as of and for the period from March 1, 2025 through December 31, 2025 (the Period) (Management's Assertion). The Company has determined that servicing criterion 1122(d)(4)(vi) is applicable to the activities the Company performs with respect to the Platform, except for certain tax payment activities that the Company has engaged a third party to perform. With respect to servicing criterion 1122(d)(4)(iii), the Company has determined that there were no activities performed during the Period with respect to the Platform, because there were no occurrences of events that would require the Company to perform such activities. With respect to the transactions listed in Appendix A of Management's Assertion under the heading "TRANSACTIONS FOR WHICH THE COMPANY IS THE SPECIAL SERVICER", the Company has determined that there were no activities performed related to the Applicable Servicing Criteria during the Period because there were no occurrences of events that would require the Company to perform such activities. Management is responsible for the Company's compliance with the Applicable Servicing Criteria for the Platform. Our responsibility is to express an opinion on Management's Assertion about the Company's compliance with the Applicable Servicing Criteria for the Platform based on our examination.

Our examination was conducted in accordance with the standards of the Public Company Accounting Oversight Board (United States) and in accordance with attestation standards established by the American Institute of Certified Public Accountants to obtain reasonable assurance and, accordingly, included examining, on a test basis, evidence about the Company's compliance with the Applicable Servicing Criteria for the Platform and performing such other procedures as we considered necessary in the circumstances. Our examination included testing selected asset-backed transactions and securities that comprise the Platform, testing selected servicing activities related to the Platform, and determining whether the Company processed those selected transactions and performed those selected activities in compliance with the Applicable Servicing Criteria. Furthermore, our procedures were limited to the selected transactions and servicing activities performed by the Company during the period covered by this report. Our procedures were not designed to determine whether errors may have occurred either prior to or subsequent to our tests that may have affected the balances or amounts calculated or reported by the Company during the period covered by this report for the selected transactions or any other transactions. We believe that our examination provides a reasonable basis for our opinion. Our examination does not provide a legal determination on the Company's compliance with the Applicable Servicing Criteria for the Platform.

We are required to be independent and to meet our other ethical responsibilities in accordance with relevant ethical requirements relating to the examination engagement.

As described in the accompanying Management's Assessment of Compliance with Applicable Servicing Criteria, for servicing criteria 1122(d)(4)(i) and 1122(d)(4)(v), the Company has engaged various vendors to perform the activities required by these servicing criteria. The Company has determined that none of these vendors is considered a "servicer" as defined in Item 1101(j) of Regulation AB, and the Company has elected to take responsibility for assessing compliance with the servicing criteria applicable to each vendor as permitted by the SEC's Compliance and Disclosure Interpretation (C&DI) 200.06, Vendors Engaged by Servicers (C&DI 200.06). As permitted by C&DI 200.06, the Company has asserted that it has policies and procedures in place designed to provide reasonable assurance that the vendors' activities comply in all material respects with the servicing criteria applicable to each vendor. The Company is solely responsible for determining that it meets the SEC requirements to apply C&DI 200.06 for the vendors and related servicing criteria as described in its assertion, and we performed no procedures with respect to the Company's eligibility to apply C&DI 200.06.

In our opinion, Management's Assertion that Trimont LLC complied with the aforementioned Applicable Servicing Criteria, including servicing criteria 1122(d)(4)(i) and 1122(d)(4)(v) for which compliance is determined based on C&DI 200.06 as described above, as of and for the Period is fairly stated, in all material respects.

/s/ KPMG LLP

Chicago, Illinois
March 12, 2026

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Rialto Capital Advisors, LLC.

We have examined management of Rialto Capital Advisors, LLC's assertion, included in the accompanying Management's Assertions on Compliance with Applicable Regulation AB Servicing Criteria, that Rialto Capital Advisors, LLC (the "Company") complied with the servicing criteria set forth in Item 1122(d) of the Securities and Exchange Commission's Regulation AB for the commercial mortgage loan platform (the "Platform"), excluding criteria in Items 1122 (d)(1)(iii), (d)(3)(i)(C), (d)(3)(i)(D), (d)(3)(ii), (d)(3)(iii), (d)(3)(iv), (d)(4)(v), (d)(4)(vi), (d)(4)(vii), (d)(4)(viii), (d)(4)(ix), and (d)(4)(x) (the "servicing criteria"), as of and for the year ended December 31, 2025, which management has determined are not applicable to the activities performed by the Company with respect to the Platform. Exhibit 1 to management's assertion identifies the individual asset-backed transactions defined by management as constituting the Platform. Management is responsible for the Company's compliance with the servicing criteria and its assertion. Our responsibility is to express an opinion on management's assertion about the Company's compliance with the servicing criteria based on our examination.

Our examination was conducted in accordance with the standards of the Public Company Accounting Oversight Board (United States) and in accordance with attestation standards established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform the examination to obtain reasonable assurance about whether management's assertion about compliance with the servicing criteria is fairly stated, in all material respects. An examination involves performing procedures to obtain evidence about management's assertion on compliance with the servicing criteria. The nature, timing, and extent of the procedures selected depend on our judgment, including an assessment of the risks of material misstatement of management's assertion on compliance with the servicing criteria, whether due to error or fraud, and, accordingly, included examining, on a test basis, evidence about the Company's compliance with the servicing criteria, including tests on a sample basis of the servicing activities related to the Platform, determining whether the Company performed those selected activities in compliance with the servicing criteria during the specified period, and performing such other procedures as we considered necessary in the circumstances. Our procedures were limited to selected servicing activities performed by the Company during the period covered by this report and, accordingly, such samples may not have included servicing activities related to each asset-backed transaction included in the Platform. Further, an examination is not designed to detect noncompliance arising from errors that may have occurred prior to the period specified above that may have affected the balances or amounts calculated or reported by the Company during the period covered by this report. We believe that the evidence we obtained in our examination is sufficient and appropriate to provide a reasonable basis for our opinion.

As described in management's assertion, for servicing criteria Item 1122(d)(1)(ii), the Company has engaged a vendor to perform certain activities required by this servicing criteria. The Company has determined that this vendor is not considered a "servicer" as defined in Item 1101(j) of Regulation AB, and the Company has elected to take responsibility for assessing compliance with the servicing criteria applicable to this vendor as permitted by the SEC's *Compliance and Disclosure Interpretation 200.06, Lenders Engaged by Servicers* ("C&DI 200.06"). As permitted by C&DI 200.06, the Company has asserted that it has policies and procedures in place designed to provide reasonable assurance that the vendor's activities comply in all material respects with the servicing criteria applicable to this vendor. The Company is solely responsible for determining that it meets the SEC requirements to apply C&DI 200.06 for the vendor and related criteria as described in its assertion, and we performed no procedures with respect to the Company's determination of its eligibility to apply C&DI 200.06.

Our examination does not provide a legal determination on the Company's compliance with the servicing criteria.

In our opinion, management's assertion that the Company complied with the servicing criteria as of and for the year ended December 31, 2025, is fairly stated, in all material respects.

/s/ Deloitte & Touche LLP

February 13, 2026

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Report of Independent Registered Public Accounting Firm

The Board of Directors
Wells Fargo Bank, National Association:

We have examined management's assertion, included in the accompanying ASSESSMENT OF COMPLIANCE WITH THE APPLICABLE SERVICING CRITERIA, that the Corporate Trust Services division of Wells Fargo Bank, National Association (the "Company") complied with the servicing criteria set forth in Item 1122(d) of the Securities and Exchange Commission's Regulation AB for commercial mortgage-backed securities ("CMBS") transactions backed by pools of commercial mortgage loans and/or backed by CMBS for which the Company was appointed to perform trustee, securities administration, paying agent services, and/or related services, and for which either (a) some or all of the issued securities for such CMBS transactions were publicly offered pursuant to a registration statement delivered under the Securities Act of 1933, as amended, or (b) the issued securities for such CMBS transactions were privately offered pursuant to an exemption from registration and the Company has an obligation under the transaction agreements to deliver an assessment of compliance with the applicable servicing criteria under Item 1122(d) of Regulation AB; provided however that, (i) the platform excludes any transactions for which the offered securities were issued, sponsored and/or guaranteed by any agency or instrumentality of the U.S. government or any government-sponsored entity, and (ii) the platform excludes any transactions for which the offered securities were issued pursuant to a transaction that closed prior to January 1, 2006 and for which the Company outsources all material servicing activities (as defined by Regulation AB) to a party other than Computershare Trust Company or any affiliate thereof (the "CMBS Platform") as of and for the twelve months ended December 31, 2025. Appendix A to the ASSESSMENT OF COMPLIANCE WITH THE APPLICABLE SERVICING CRITERIA identifies the individual asset-backed transactions and securities defined by management as constituting the CMBS Platform.

The Company's management has determined that the servicing criteria set forth in Item 1122(d)(1)(ii), 1122(d)(1)(iv) and 1122(d)(2)(iii) are applicable to the servicing activities performed by the Company with respect to the CMBS Platform as of and for the twelve months ended December 31, 2025 (the "Applicable Servicing Criteria"). With respect to Applicable Servicing Criterion 1122(d)(2)(iii), the Company's management has determined that there were no activities performed during the twelve months ended December 31, 2025 with respect to the CMBS Platform, because there were no occurrences of events that would require the Company to perform such activities. The Company's management has determined that all other servicing criteria set forth in Item 1122(d) are not applicable to the Company because the Company does not perform activities with respect to the CMBS Platform relating to those servicing criteria. Management is responsible for the Company's compliance with the Applicable Servicing Criteria. Our responsibility is to express an opinion on management's assertion about the Company's compliance with the Applicable Servicing Criteria based on our examination.

Our examination was conducted in accordance with the standards of the Public Company Accounting Oversight Board (United States) and in accordance with attestation standards established by the American Institute of Certified Public Accountants to obtain reasonable assurance and, accordingly, included examining, on a test basis, evidence about the Company's compliance with the Applicable Servicing Criteria for the CMBS Platform and performing such other procedures as we considered necessary in the circumstances. Our examination included testing selected asset-backed transactions and securities that comprise the CMBS Platform, testing selected servicing activities related to the CMBS Platform, and determining whether the Company processed those selected transactions and performed those selected activities in compliance with the Applicable Servicing Criteria. Furthermore, our procedures were limited to the selected transactions and servicing activities performed by the Company during the period covered by this report. Our procedures were not designed to determine whether errors may have occurred either prior to or subsequent to our tests that may have affected the balances or amounts calculated or reported by the Company during the period covered by this report for the selected transactions or any other transactions. We believe that our examination provides a reasonable basis for our opinion. Our examination does not provide a legal determination on the Company's compliance with the Applicable Servicing Criteria for the CMBS Platform.

We are required to be independent and to meet our other ethical responsibilities in accordance with relevant ethical requirements relating to the examination engagement.

In our opinion, management's assertion that the Company complied with the aforementioned Applicable Servicing Criteria for the CMBS Platform as of and for the twelve months ended December 31, 2025 is fairly stated, in all material respects.

Our opinion on management's assertion does not extend to any other information that accompanies or contains our report. We do not express an opinion or any form of assurance on the statements in Appendix B to the ASSESSMENT OF COMPLIANCE WITH THE APPLICABLE SERVICING CRITERIA.

/s/ KPMG LLP

Charlotte, North Carolina
February 27, 2026

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Report of Independent Registered Public Accounting Firm

The Board of Directors
Wells Fargo Bank, National Association:

We have examined management's assertion, included in the accompanying ASSESSMENT OF COMPLIANCE WITH THE APPLICABLE SERVICING CRITERIA, that the Corporate Trust Services division of Wells Fargo Bank, National Association (the "Company") complied with the servicing criteria set forth in Item 1122(d) of the Securities and Exchange Commission's Regulation AB for residential mortgage-backed securities ("RMBS") transactions and commercial mortgage-backed securities ("CMBS") transactions, in each case for which the Company was appointed to provide document custody services, and for which either (a) some or all of the issued securities for such RMBS or CMBS transactions were publicly offered on or after January 1, 2006 pursuant to a registration statement delivered under the Securities Act of 1933, as amended, or (b) the issued securities for such RMBS or CMBS transactions were privately offered on or after January 1, 2006 pursuant to an exemption from registration and the Company has an obligation under the transaction agreements to deliver an assessment of compliance with the applicable servicing criteria under Item 1122(d) of Regulation AB, provided however that, the platform excludes any transactions for which the offered securities were issued, sponsored and/or guaranteed by any agency or instrumentality of the U.S. government or any government-sponsored entity, other than certain RMBS transactions for which the offered securities were issued, sponsored and/or guaranteed by the Federal Deposit Insurance Corporation (the "Document Custody Platform") as of and for the twelve months ended December 31, 2025. Appendix A to the ASSESSMENT OF COMPLIANCE WITH THE APPLICABLE SERVICING CRITERIA identifies the individual asset-backed transactions and securities defined by management as constituting the Document Custody Platform.

The Company's management has determined that the following servicing criteria set forth in Item 1122(d) are relevant to the servicing activities performed by the Company with respect to the Document Custody Platform as of and for the twelve months ended December 31, 2025: Item 1122(d)(1)(i) and 1122(d)(1)(v) (the "Applicable Servicing Criteria"). The Company's management has determined that all other servicing criteria set forth in Item 1122(d) are not applicable to the Company because the Company does not perform activities with respect to the Document Custody Platform relating to those servicing criteria. Management is responsible for the Company's compliance with the Applicable Servicing Criteria. Our responsibility is to express an opinion on management's assertion about the Company's compliance with the Applicable Servicing Criteria based on our examination.

Our examination was conducted in accordance with the standards of the Public Company Accounting Oversight Board (United States) and in accordance with attestation standards established by the American Institute of Certified Public Accountants to obtain reasonable assurance and, accordingly, included examining, on a test basis, evidence about the Company's compliance with the Applicable Servicing Criteria for the Document Custody Platform and performing such other procedures as we considered necessary in the circumstances. Our examination included testing selected asset-backed transactions and securities that comprise the Document Custody Platform, testing selected servicing activities related to the Document Custody Platform, and determining whether the Company processed those selected transactions and performed those selected activities in compliance with the Applicable Servicing Criteria. Furthermore, our procedures were limited to the selected transactions and servicing activities performed by the Company during the period covered by this report. Our procedures were not designed to determine whether errors may have occurred either prior to or subsequent to our tests that may have affected the balances or amounts calculated or reported by the Company during the period covered by this report for the selected transactions or any other transactions. We believe that our examination provides a reasonable basis for our opinion. Our examination does not provide a legal determination on the Company's compliance with the Applicable Servicing Criteria for the Document Custody Platform.

We are required to be independent and to meet our other ethical responsibilities in accordance with relevant ethical requirements relating to the examination engagement.

In our opinion, management's assertion that the Company complied with the aforementioned Applicable Servicing Criteria for the Document Custody Platform as of and for the twelve months ended December 31, 2025 is fairly stated, in all material respects.

Our opinion on management's assertion does not extend to any other information that accompanies or contains our report. We do not express an opinion or any form of assurance on the statements in Appendix B to the ASSESSMENT OF COMPLIANCE WITH THE APPLICABLE SERVICING CRITERIA.

/s/ KPMG LLP

Charlotte, North Carolina
February 27, 2026

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Report of Independent Registered Public Accounting Firm

Management
 Park Bridge Lender Services LLC
 New York, New York

We have examined management of Park Bridge Lender Services LLC's (the "Company") assertion that the Company complied with the servicing criteria set forth in Item 1122(d) of the Securities and Exchange Commission's Regulation AB for all transactions for specific pools identified in Exhibit A that are backed by certain commercial mortgage loans for which the Company processed in its capacity as trust advisor or operating advisor (the "Platform"), excluding criteria 1122(d)(1)(i)-1122(d)(1)(v), 1122(d)(2)(i)-1122(d)(2)(vii), 1122(d)(3)(i)-1122(d)(3)(v), 1122(d)(4)(i)-1122(d)(4)(vi) and 1122(d)(4)(vii)-1122(d)(4)(xv), which management has determined are not applicable to the activities performed by the Company with respect to the Platform, included in the accompanying Management's Report on Assessment of Compliance with the Securities and Exchange Commission's Regulation AB Servicing Criteria dated January 28, 2026 as of and for the year ended December 31, 2025. The Company's management is responsible for its assertion. Our responsibility is to express an opinion on management's assertion about the Company's compliance with the specified requirements based on our examination.

Our examination was conducted in accordance with the standards of the Public Company Accounting Oversight Board (United States) and in accordance with attestation standards established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform the examination to obtain reasonable assurance about whether management's assertion about compliance with the specified requirements is fairly stated, in all material respects. An examination involves performing procedures to obtain evidence about whether management's assertion is fairly stated, in all material respects. The nature, timing, and extent of the procedures selected depend on our judgment, including an assessment of the risks of material misstatement of management's assertion, whether due to fraud or error. We believe that the evidence we obtained is sufficient and appropriate to provide a reasonable basis for our opinion.

We are required to be independent and to meet our other ethical responsibilities in accordance with relevant ethical requirements relating to the engagement.

Our examination does not provide a legal determination on the Company's compliance with the specified requirements.

In our opinion, management's assertion that the Company complied with the aforementioned applicable servicing criteria included in the accompanying Management's Report on Assessment of Compliance with Securities and Exchange Commission's Regulation AB Servicing Criteria dated January 28, 2026 as of and for the year ended December 31, 2025 is fairly stated, in all material respects.

/s/ Forvis Mazars, LLP

Greenville, South Carolina
 January 28, 2026

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Exhibit A

Asserting Party's 2025 Servicing Platform

Securitization Transaction	Applicable Certification Period	
	Start Date	End Date
3650R 2021-PF1	January 01, 2025	to December 31, 2025
3650R 2022-PF2	January 01, 2025	to December 31, 2025
8 Spruce	January 01, 2025	to December 31, 2025
AHPT 2025-ATRM	August 15, 2025	to December 31, 2025
ALA 2025-OANA	June 13, 2025	to December 31, 2025
AOA 2021-1177	January 01, 2025	to October 15, 2025
AOA 2025-1301	August 14, 2025	to December 31, 2025
ARDN 2025-ARCP	June 17, 2025	to December 31, 2025
AREIT 2021-CRES	January 01, 2025	to April 17, 2025
ARES 2024-IND	January 01, 2025	to December 31, 2025
Aventura Mall 2018-AVM	January 01, 2025	to December 31, 2025
BACM 2016-UBS10	January 01, 2025	to December 31, 2025
BACM 2017-BNK3	January 01, 2025	to December 31, 2025
BAHA 2024-MAR	January 01, 2025	to December 31, 2025
BAMLL 2021-JACX	January 01, 2025	to December 31, 2025
BAMLL 2025-1105W	December 15, 2025	to December 31, 2025
BAMLL 2025-HYT	December 18, 2025	to December 31, 2025
Bancorp 2017-CRE2	January 01, 2025	to June 17, 2025
Bancorp 2018-CRE3	January 01, 2025	to June 17, 2025
Bancorp 2018-CRE4	January 01, 2025	to June 17, 2025
Bancorp 2019-CRE5	January 01, 2025	to December 31, 2025
BANK 2017-BNK5	January 01, 2025	to December 31, 2025
BANK 2017-BNK6	January 01, 2025	to December 31, 2025
BANK 2017-BNK8	January 01, 2025	to December 31, 2025
BANK 2017-BNK9	January 01, 2025	to December 31, 2025
BANK 2018-BNK11	January 01, 2025	to December 31, 2025
BANK 2018-BNK12	January 01, 2025	to December 31, 2025
BANK 2018-BNK14	January 01, 2025	to December 31, 2025
BANK 2018-BNK15	January 01, 2025	to December 31, 2025
BANK 2019-BNK16	January 01, 2025	to December 31, 2025
BANK 2019-BNK19	January 01, 2025	to December 31, 2025
BANK 2019-BNK20	January 01, 2025	to December 31, 2025
BANK 2019-BNK21	January 01, 2025	to December 31, 2025
BANK 2019-BNK23	January 01, 2025	to December 31, 2025
BANK 2019-BNK24	January 01, 2025	to December 31, 2025
BANK 2020-BNK26	January 01, 2025	to December 31, 2025
BANK 2020-BNK27	January 01, 2025	to December 31, 2025
BANK 2020-BNK28	January 01, 2025	to December 31, 2025
BANK 2020-BNK30	January 01, 2025	to December 31, 2025
BANK 2021-BNK31	January 01, 2025	to December 31, 2025
BANK 2021-BNK32	January 01, 2025	to December 31, 2025
BANK 2021-BNK33	January 01, 2025	to December 31, 2025
BANK 2021-BNK35	January 01, 2025	to December 31, 2025
BANK 2021-BNK37	January 01, 2025	to December 31, 2025
BANK 2022-BNK39	January 01, 2025	to December 31, 2025
BANK 2022-BNK42	January 01, 2025	to December 31, 2025
BANK 2022-BNK44	January 01, 2025	to December 31, 2025
BANK 2023-BNK45	January 01, 2025	to December 31, 2025
BANK 2023-BNK46	January 01, 2025	to December 31, 2025
BANK 2024-BNK47	January 01, 2025	to December 31, 2025
BANK 2024-BNK48	January 01, 2025	to December 31, 2025
BANKS 2023-SYR2	January 01, 2025	to December 31, 2025
BANKS 2023-SYR4	January 01, 2025	to December 31, 2025
BANKS 2024-SYR12	January 01, 2025	to December 31, 2025
BANKS 2024-SYR5	January 01, 2025	to December 31, 2025
BANKS 2024-SYR6	January 01, 2025	to December 31, 2025
BANKS 2024-SYR7	January 01, 2025	to December 31, 2025
BANKS 2025-SYR15	July 15, 2025	to December 31, 2025
BANKS 2025-SYR18	December 09, 2025	to December 31, 2025
BAY 2024-LIVN	May 06, 2025	to December 31, 2025
BBCMS 2017-C1	January 01, 2025	to December 31, 2025
BBCMS 2018-C2	January 01, 2025	to December 31, 2025
BBCMS 2019-BWAY	January 01, 2025	to December 31, 2025
BBCMS 2019-C4	January 01, 2025	to December 31, 2025
BBCMS 2020-C7	January 01, 2025	to December 31, 2025
BBCMS 2021-C11	January 01, 2025	to December 31, 2025
BBCMS 2021-C9	January 01, 2025	to December 31, 2025
BBCMS 2022-C14	January 01, 2025	to December 31, 2025
BBCMS 2022-C16	January 01, 2025	to December 31, 2025
BBCMS 2022-C18	January 01, 2025	to December 31, 2025
BBCMS 2023-SC23	January 01, 2025	to December 31, 2025
BBCMS 2023-C20	January 01, 2025	to December 31, 2025
BBCMS 2024-SC29	January 01, 2025	to December 31, 2025
BBCMS 2024-C26	January 01, 2025	to December 31, 2025
BBCMS 2025-SC36	August 07, 2025	to December 31, 2025
BBCMS 2025-C32	February 12, 2025	to December 31, 2025
BBCMS 2025-C39	December 23, 2025	to December 31, 2025
BCP 2021-330N	January 01, 2025	to December 31, 2025
BDS 2022-FL12	January 01, 2025	to August 19, 2025
BFLD 2020-EYP	January 01, 2025	to December 31, 2025
BFLD 2021-FPM	January 01, 2025	to September 15, 2025
BFLD 2024-VICT	January 01, 2025	to December 31, 2025
BFLD 2024-WRHS	January 01, 2025	to December 31, 2025

BFLD 2025-660F	October 31, 2025	to	December 31, 2025
BFLD 2025-FPM	September 12, 2025	to	December 31, 2025
BLOX 2021-BLOX	January 01, 2025	to	December 31, 2025
BLP 2023-IND	January 01, 2025	to	December 31, 2025
BLP 2024-IND2	January 01, 2025	to	December 31, 2025
BLP 2025-IND	March 17, 2025	to	December 31, 2025
BMARK 2018-B1	January 01, 2025	to	December 31, 2025
BMARK 2018-B3	January 01, 2025	to	December 31, 2025
BMARK 2018-B4	January 01, 2025	to	December 31, 2025
BMARK 2018-B6	January 01, 2025	to	December 31, 2025
BMARK 2018-B7	January 01, 2025	to	December 31, 2025
BMARK 2019-B13	January 01, 2025	to	December 31, 2025
BMARK 2019-B15	January 01, 2025	to	December 31, 2025
BMARK 2019-B9	January 01, 2025	to	December 31, 2025
BMARK 2020-B16	January 01, 2025	to	December 31, 2025
BMARK 2020-B18	January 01, 2025	to	December 31, 2025
BMARK 2020-B21	January 01, 2025	to	December 31, 2025
BMARK 2020-HG1	January 01, 2025	to	December 31, 2025
BMARK 2021-B23	January 01, 2025	to	December 31, 2025
BMARK 2021-B24	January 01, 2025	to	December 31, 2025
BMARK 2021-B26	January 01, 2025	to	December 31, 2025
BMARK 2021-B27	January 01, 2025	to	December 31, 2025
BMARK 2021-B29	January 01, 2025	to	December 31, 2025
BMARK 2021-B30	January 01, 2025	to	December 31, 2025
BMARK 2022-B33	January 01, 2025	to	December 31, 2025
BMARK 2022-B34	January 01, 2025	to	December 31, 2025
BMARK 2022-B35	January 01, 2025	to	December 31, 2025
BMARK 2022-B36	January 01, 2025	to	December 31, 2025
BMARK 2023-B38	January 01, 2025	to	December 31, 2025
BMARK 2023-B39	January 01, 2025	to	December 31, 2025
BMARK 2023-V3	January 01, 2025	to	December 31, 2025
BMARK 2023-V4	January 01, 2025	to	December 31, 2025
BMARK 2024-V11	January 01, 2025	to	December 31, 2025
BMARK 2024-V12	January 01, 2025	to	December 31, 2025
BMARK 2024-V7	January 01, 2025	to	December 31, 2025
BMARK 2024-V8	January 01, 2025	to	December 31, 2025
BMARK 2024-V9	January 01, 2025	to	December 31, 2025
BMARK 2025-B41	September 04, 2025	to	December 31, 2025
BMARK 2025-V13	February 19, 2025	to	December 31, 2025
BMARK 2025-V14	April 15, 2025	to	December 31, 2025
BMARK 2025-V16	August 13, 2025	to	December 31, 2025
BMARK 2025-V17	September 29, 2025	to	December 31, 2025
BMARK 2025-V18	October 30, 2025	to	December 31, 2025
BMARK 2025-V19	December 23, 2025	to	December 31, 2025
BMO 2022-C1	January 01, 2025	to	December 31, 2025
BMO 2022-C3	January 01, 2025	to	December 31, 2025
BMO 2023-C5	January 01, 2025	to	December 31, 2025
BMO 2023-C6	January 01, 2025	to	December 31, 2025
BMO 2024-SC3	January 01, 2025	to	December 31, 2025
BMO 2024-C10	January 01, 2025	to	December 31, 2025
BMO 2024-C9	January 01, 2025	to	December 31, 2025
BMO 2025-SC10	May 16, 2025	to	December 31, 2025
BMO 2025-SC12	October 09, 2025	to	December 31, 2025
BMO 2025-C11	February 28, 2025	to	December 31, 2025
BMP 2024-MF23	January 01, 2025	to	December 31, 2025
BOCA 2024-BOCA	January 01, 2025	to	December 15, 2025
BOCA 2025-BOCA	December 19, 2025	to	December 31, 2025
BPR 2021-NRD	January 01, 2025	to	December 31, 2025
BPR 2021-TY	January 01, 2025	to	December 31, 2025
BPR 2021-WILL	January 01, 2025	to	December 31, 2025
BPR 2022-OANA	January 01, 2025	to	June 16, 2025
BPR 2022-SSP	January 01, 2025	to	December 31, 2025
BPR 2022-STAR	January 01, 2025	to	October 15, 2025
BPR 2023-STON	January 01, 2025	to	December 31, 2025
BSREP 2021-DC	January 01, 2025	to	December 31, 2025
BSTN 2025-HUB	October 17, 2025	to	December 31, 2025
BWAY 2021-1450	January 01, 2025	to	December 31, 2025
BX 2018-GW	January 01, 2025	to	July 15, 2025
BX 2019-OC11	January 01, 2025	to	December 31, 2025
BX 2021-21M	January 01, 2025	to	December 31, 2025
BX 2021-ACNT	January 01, 2025	to	December 31, 2025
BX 2021-IRON	January 01, 2025	to	December 31, 2025
BX 2021-LGCV	January 01, 2025	to	December 31, 2025
BX 2021-PAC	January 01, 2025	to	December 31, 2025
BX 2021-SDMF	January 01, 2025	to	December 31, 2025
BX 2021-VINO	January 01, 2025	to	July 15, 2025
BX 2021-VOLT	January 01, 2025	to	December 15, 2025
BX 2021-XL2	January 01, 2025	to	December 31, 2025
BX 2022-FOX2	January 01, 2025	to	November 17, 2025
BX 2022-IND	January 01, 2025	to	December 31, 2025
BX 2022-LP2	January 01, 2025	to	December 31, 2025
BX 2022-PSB	January 01, 2025	to	July 15, 2025
BX 2023-XL3	January 01, 2025	to	December 31, 2025
BX 2024-BRBK	January 01, 2025	to	December 31, 2025
BX 2024-CNYN	January 01, 2025	to	December 31, 2025
BX 2024-FNX	January 01, 2025	to	December 31, 2025
BX 2024-GPA2	January 01, 2025	to	December 31, 2025
BX 2024-GPA3	January 01, 2025	to	December 31, 2025
BX 2024-KING	January 01, 2025	to	December 31, 2025
BX 2024-MDHS	January 01, 2025	to	December 31, 2025
BX 2024-PALM	January 01, 2025	to	December 31, 2025
BX 2024-SLCT	January 01, 2025	to	December 31, 2025
BX 2024-VLTS	January 01, 2025	to	December 31, 2025
BX 2024-XL4	January 01, 2025	to	December 31, 2025
BX 2024-XL5	January 01, 2025	to	December 31, 2025
BX 2025-BIO3	February 11, 2025	to	December 31, 2025
BX 2025-COPT	August 21, 2025	to	December 31, 2025
BX 2025-DIME	February 14, 2025	to	December 31, 2025
BX 2025-ROIC	February 27, 2025	to	December 31, 2025
BX 2025-VLT6	March 06, 2025	to	December 31, 2025
BX 2025-VOLT	December 15, 2025	to	December 31, 2025
BXSC 2022-WSS	January 01, 2025	to	December 31, 2025
CAMB 2021-CX2	January 01, 2025	to	December 31, 2025
Carbon 2019-FL2	January 01, 2025	to	December 31, 2025
CCUBS 2017-C1	January 01, 2025	to	December 31, 2025
CD 2016-CD1	January 01, 2025	to	December 31, 2025
CD 2016-CD2	January 01, 2025	to	December 31, 2025
CD 2017-CD3	January 01, 2025	to	December 31, 2025
CD 2017-CD4	January 01, 2025	to	December 31, 2025
CD 2017-CD5	January 01, 2025	to	December 31, 2025
CD 2017-CD6	January 01, 2025	to	December 31, 2025
CD 2018-CD7	January 01, 2025	to	December 31, 2025
CD 2019-CD8	January 01, 2025	to	December 31, 2025
CENT 2023-CITY	January 01, 2025	to	July 15, 2025
CENT 2025-CITY	July 22, 2025	to	December 31, 2025
CF 2019-CF1	January 01, 2025	to	December 31, 2025
CF 2019-CF2	January 01, 2025	to	December 31, 2025
CF 2019-CF3	January 01, 2025	to	December 31, 2025
CF 2020-P1	January 01, 2025	to	December 31, 2025
CFCRE 2016-C3	January 01, 2025	to	December 31, 2025
CFCRE 2016-C4	January 01, 2025	to	December 31, 2025
CFCRE 2016-C6	January 01, 2025	to	December 31, 2025
CFCRE 2016-C7	January 01, 2025	to	December 31, 2025

CFCRE 2017-C8	January 01, 2025	to	December 31, 2025
CGCMT 2014-GC21	January 01, 2025	to	December 31, 2025
CGCMT 2014-GC25	January 01, 2025	to	December 31, 2025
CGCMT 2015-GC27	January 01, 2025	to	December 31, 2025
CGCMT 2015-GC35	January 01, 2025	to	December 31, 2025
CGCMT 2015-F1	January 01, 2025	to	December 31, 2025
CGCMT 2016-C1	January 01, 2025	to	December 31, 2025
CGCMT 2016-GC37	January 01, 2025	to	December 31, 2025
CGCMT 2016-P3	January 01, 2025	to	December 31, 2025
CGCMT 2016-P4	January 01, 2025	to	December 31, 2025
CGCMT 2016-P5	January 01, 2025	to	December 31, 2025
CGCMT 2016-P6	January 01, 2025	to	December 31, 2025
CGCMT 2017-C4	January 01, 2025	to	December 31, 2025
CGCMT 2017-P7	January 01, 2025	to	December 31, 2025
CGCMT 2018-B2	January 01, 2025	to	December 31, 2025
CGCMT 2018-C6	January 01, 2025	to	December 31, 2025
CGCMT 2019-GC41	January 01, 2025	to	December 31, 2025
CGCMT 2019-GC43	January 01, 2025	to	December 31, 2025
CGCMT 2020-GC46	January 01, 2025	to	December 31, 2025
CGCMT 2022-GC48	January 01, 2025	to	December 31, 2025
CGCMT 2023-SMRT	January 01, 2025	to	December 31, 2025
CHI 2025-SFT	March 27, 2025	to	December 31, 2025
COAST 2023-2HTL	January 01, 2025	to	December 31, 2025
COMM 2012-CCRE4	January 01, 2025	to	December 31, 2025
COMM 2012-CCRE5	January 01, 2025	to	December 31, 2025
COMM 2012-LC4	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE10	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE11	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE12	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE16	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE7	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE8	January 01, 2025	to	December 31, 2025
COMM 2013-CCRE9	January 01, 2025	to	December 31, 2025
COMM 2013-LC13	January 01, 2025	to	December 31, 2025
COMM 2013-LC6	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE14	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE15	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE16	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE17	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE18	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE19	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE20	January 01, 2025	to	December 31, 2025
COMM 2014-CCRE21	January 01, 2025	to	December 31, 2025
COMM 2014-LC15	January 01, 2025	to	December 31, 2025
COMM 2014-LC17	January 01, 2025	to	December 31, 2025
COMM 2014-UBS2	January 01, 2025	to	December 31, 2025
COMM 2014-UBS3	January 01, 2025	to	December 31, 2025
COMM 2014-UBS4	January 01, 2025	to	December 31, 2025
COMM 2014-UBS5	January 01, 2025	to	December 31, 2025
COMM 2015-CCRE22	January 01, 2025	to	December 31, 2025
COMM 2015-CCRE24	January 01, 2025	to	December 31, 2025
COMM 2015-CCRE26	January 01, 2025	to	December 31, 2025
COMM 2015-CCRE27	January 01, 2025	to	December 31, 2025
COMM 2015-DC1	January 01, 2025	to	December 31, 2025
COMM 2015-LC19	January 01, 2025	to	December 31, 2025
COMM 2015-LC21	January 01, 2025	to	December 31, 2025
COMM 2015-LC23	January 01, 2025	to	December 31, 2025
COMM 2015-PC1	January 01, 2025	to	December 31, 2025
COMM 2016-667M	January 01, 2025	to	December 31, 2025
COMM 2016-CCRE28	January 01, 2025	to	December 31, 2025
COMM 2016-COR1	January 01, 2025	to	December 31, 2025
COMM 2016-DC2	January 01, 2025	to	December 31, 2025
COMM 2017-COR2	January 01, 2025	to	December 31, 2025
COMM 2018-5BP	January 01, 2025	to	December 15, 2025
COMM 2018-COR3	January 01, 2025	to	December 31, 2025
COMM 2018-HOME	January 01, 2025	to	December 31, 2025
COMM 2019-GC44	January 01, 2025	to	December 31, 2025
COMM 2020-CX	January 01, 2025	to	December 31, 2025
COMM 2021-2400	January 01, 2025	to	December 31, 2025
COMM 2022-HC	January 01, 2025	to	December 31, 2025
COMM 2024-277P	January 01, 2025	to	December 31, 2025
COMM 2024-CBM	January 01, 2025	to	December 31, 2025
COMM 2024-WCL1	January 01, 2025	to	December 31, 2025
COMM 2025-180W	August 05, 2025	to	December 31, 2025
COMM 2025-SBX	August 01, 2025	to	December 31, 2025
CSAIL 2015-C1	January 01, 2025	to	December 31, 2025
CSAIL 2015-C2	January 01, 2025	to	December 31, 2025
CSAIL 2016-C6	January 01, 2025	to	December 31, 2025
CSAIL 2016-C7	January 01, 2025	to	December 31, 2025
CSAIL 2017-C8	January 01, 2025	to	December 31, 2025
CSAIL 2017-CX10	January 01, 2025	to	December 31, 2025
CSAIL 2018-CX11	January 01, 2025	to	December 31, 2025
CSAIL 2018-CX12	January 01, 2025	to	December 31, 2025
CSAIL 2019-C15	January 01, 2025	to	December 31, 2025
CSAIL 2019-C17	January 01, 2025	to	December 31, 2025
CSAIL 2020-C19	January 01, 2025	to	December 31, 2025
CSAIL 2021-C20	January 01, 2025	to	December 31, 2025
CSMC 2016-NXSR	January 01, 2025	to	December 31, 2025
CSMC 2017-CALI	January 01, 2025	to	December 31, 2025
CSMC 2017-CHOP	January 01, 2025	to	December 31, 2025
CSMC 2017-PFHP	January 01, 2025	to	December 31, 2025
CSMC 2019-UVIL	January 01, 2025	to	December 31, 2025
CSMC 2020-FACT	January 01, 2025	to	December 31, 2025
CSMC 2021-B33	January 01, 2025	to	December 31, 2025
CSMC 2021-BHAR	January 01, 2025	to	December 31, 2025
CSTL 2024-GATE	January 01, 2025	to	December 31, 2025
CSTL 2025-GATE2	November 12, 2025	to	December 31, 2025
DAFC 2017-AMO	January 01, 2025	to	December 31, 2025
DATA 2023-CNTR	January 01, 2025	to	December 31, 2025
DBC 2025-DBC	October 29, 2025	to	December 31, 2025
DBGS 2018-BIOD	January 01, 2025	to	April 15, 2025
DBGS 2018-C1	January 01, 2025	to	December 31, 2025
DBGS 2024-ALTA	January 01, 2025	to	December 31, 2025
DBGS 2024-SBL	January 01, 2025	to	December 31, 2025
DBJPM 2016-C1	January 01, 2025	to	December 31, 2025
DBJPM 2016-C3	January 01, 2025	to	December 31, 2025
DBJPM 2020-C9	January 01, 2025	to	December 31, 2025
DBWF 2024-LCRS	January 01, 2025	to	December 31, 2025
DC 2023-DC	January 01, 2025	to	December 31, 2025
DC 2024-HLTN	January 01, 2025	to	December 31, 2025
DK 2024-SPBX	January 01, 2025	to	December 31, 2025
DOLP 2021-NYC	January 01, 2025	to	December 31, 2025
DURST 2025-151	August 19, 2025	to	December 31, 2025
ELM 2024-ELM	January 01, 2025	to	December 31, 2025
ELP 2021-ELP	January 01, 2025	to	December 31, 2025
ELP 2025-ELP	November 20, 2025	to	December 31, 2025
EQUS 2021-EQAZ	January 01, 2025	to	December 31, 2025
ESA 2021-ESH	January 01, 2025	to	October 15, 2025
FIVE 2023-V1	January 01, 2025	to	December 31, 2025
FMBT 2024-FBLU	January 01, 2025	to	December 31, 2025
FREM SCR 2016-MDN1	January 01, 2025	to	December 31, 2025
FREM SCR 2016-MDN2	January 01, 2025	to	December 31, 2025
FREM SCR 2017-MDN3	January 01, 2025	to	December 31, 2025

GFH 2025-IND	June 28, 2025	to	December 31, 2025
GPMT 2021-FL3	January 01, 2025	to	December 31, 2025
Grace Trust 2020-GRCE	January 01, 2025	to	December 31, 2025
GSAT 2025-BMF	July 15, 2025	to	December 31, 2025
GSJP 2025-BEDS	December 18, 2025	to	December 31, 2025
GSMS 2013-GCJ12	January 01, 2025	to	December 31, 2025
GSMS 2013-GCJ16	January 01, 2025	to	December 31, 2025
GSMS 2015-GC32	January 01, 2025	to	December 31, 2025
GSMS 2016-GS4	January 01, 2025	to	December 31, 2025
GSMS 2017-GS7	January 01, 2025	to	December 31, 2025
GSMS 2018-3PCK	January 01, 2025	to	December 31, 2025
GSMS 2018-GS10	January 01, 2025	to	December 31, 2025
GSMS 2019-GC39	January 01, 2025	to	December 31, 2025
GSMS 2019-GC42	January 01, 2025	to	December 31, 2025
GSMS 2019-GSA1	January 01, 2025	to	December 31, 2025
GSMS 2020-GC47	January 01, 2025	to	December 31, 2025
GSMS 2021-DM	January 01, 2025	to	October 15, 2025
GSMS 2021-IP	January 01, 2025	to	October 15, 2025
GSMS 2023-SHIP	January 01, 2025	to	December 31, 2025
GSMS 2024-FAIR	January 01, 2025	to	December 31, 2025
HGMT 2025-HGLR	February 13, 2025	to	December 31, 2025
HHT 2025-MAUI	March 21, 2025	to	December 31, 2025
HIG 2023-FL1	January 01, 2025	to	November 20, 2025
HILT 2024-ORL	January 01, 2025	to	December 31, 2025
HIT 2022-HI32	January 01, 2025	to	December 31, 2025
HONO 2021-LULU	January 01, 2025	to	December 31, 2025
ICNQ 2024-MF	January 01, 2025	to	December 31, 2025
ILPT 2019-SURF	January 01, 2025	to	December 31, 2025
ILPT 2022-LPF2	January 01, 2025	to	July 15, 2025
ILPT 2022-LPFX	January 01, 2025	to	December 31, 2025
ILPT 2025-LPF2	June 27, 2025	to	December 31, 2025
JPACC 2013-C10	January 01, 2025	to	December 31, 2025
JPACC 2018-AON	January 01, 2025	to	December 31, 2025
JPACC 2018-ASH8	January 01, 2025	to	December 31, 2025
JPACC 2018-MINN	January 01, 2025	to	December 31, 2025
JPACC 2018-PHH	January 01, 2025	to	December 31, 2025
JPACC 2018-PTC	January 01, 2025	to	December 31, 2025
JPACC 2018-WPT	January 01, 2025	to	December 31, 2025
JPACC 2019-ICON	January 01, 2025	to	December 31, 2025
JPACC 2019-OSB	January 01, 2025	to	December 31, 2025
JPACC 2020-609M	January 01, 2025	to	August 15, 2025
JPACC 2020-LOOP	January 01, 2025	to	December 31, 2025
JPACC 2021-1MEM	January 01, 2025	to	December 31, 2025
JPACC 2021-2NU	January 01, 2025	to	December 31, 2025
JPACC 2021-410T	January 01, 2025	to	December 31, 2025
JPACC 2022-NLP	January 01, 2025	to	December 31, 2025
JPACC 2025-BHR5	March 17, 2025	to	December 31, 2025
JMDB 2017-C5	January 01, 2025	to	December 31, 2025
KIND 2024-1	January 01, 2025	to	December 31, 2025
KNDR 2021-KIND	January 01, 2025	to	December 31, 2025
KRE 2025-AIP4	March 18, 2025	to	December 31, 2025
LAQ 2023-LAQ	January 01, 2025	to	December 31, 2025
LCCM 2017-LC26	January 01, 2025	to	December 31, 2025
LEX 2024-BBG	January 01, 2025	to	December 31, 2025
LIFE 2021-BMR	January 01, 2025	to	December 31, 2025
LIFE 2022-BMR2	January 01, 2025	to	December 31, 2025
LUX 2023-LION	January 01, 2025	to	December 31, 2025
LV 2024-SHOW	January 01, 2025	to	December 31, 2025
Manhattan West 2020-1MW	January 01, 2025	to	December 31, 2025
MCR 2024-HTL	January 01, 2025	to	December 31, 2025
MED 2024-MOB	January 01, 2025	to	December 31, 2025
MHC 2021-MHC	January 01, 2025	to	December 31, 2025
MHC 2021-MHC2	January 01, 2025	to	December 15, 2025
MHP 2021-STOR	January 01, 2025	to	December 31, 2025
MHP 2022-MHIL	January 01, 2025	to	December 31, 2025
MHP 2025-MHIL2	August 28, 2025	to	December 31, 2025
MILE 2025-STNE	July 15, 2025	to	December 31, 2025
MIRA 2023-MILE	January 01, 2025	to	December 31, 2025
MRCO 2019-PARK	January 01, 2025	to	December 31, 2025
MSBAM 2012-C5	January 01, 2025	to	December 31, 2025
MSBAM 2013-C10	January 01, 2025	to	December 31, 2025
MSBAM 2013-C13	January 01, 2025	to	December 31, 2025
MSBAM 2014-C14	January 01, 2025	to	December 31, 2025
MSBAM 2014-C18	January 01, 2025	to	December 31, 2025
MSBAM 2014-C19	January 01, 2025	to	December 31, 2025
MSBAM 2015-C20	January 01, 2025	to	December 31, 2025
MSBAM 2015-C22	January 01, 2025	to	December 31, 2025
MSBAM 2015-C24	January 01, 2025	to	December 31, 2025
MSBAM 2015-C26	January 01, 2025	to	December 31, 2025
MSBAM 2016-C28	January 01, 2025	to	December 31, 2025
MSBAM 2016-C29	January 01, 2025	to	December 31, 2025
MSBAM 2016-C30	January 01, 2025	to	December 31, 2025
MSBAM 2016-C31	January 01, 2025	to	December 31, 2025
MSBAM 2016-C32	January 01, 2025	to	December 31, 2025
MSBAM 2017-C33	January 01, 2025	to	December 31, 2025
MSBAM 2017-C34	January 01, 2025	to	December 31, 2025
MSBAM 2025-5C2	November 13, 2025	to	December 31, 2025
MSBAM 2025-C35	August 14, 2025	to	December 31, 2025
MSC 2015-MS1	January 01, 2025	to	December 31, 2025
MSC 2015-UBS8	January 01, 2025	to	December 31, 2025
MSC 2016-BNK2	January 01, 2025	to	December 31, 2025
MSC 2016-UBS11	January 01, 2025	to	December 31, 2025
MSC 2016-UBS12	January 01, 2025	to	December 31, 2025
MSC 2017-ASHF	January 01, 2025	to	December 31, 2025
MSC 2017-HR2	January 01, 2025	to	December 31, 2025
MSC 2018-H3	January 01, 2025	to	December 31, 2025
MSC 2018-H4	January 01, 2025	to	December 31, 2025
MSC 2019-H6	January 01, 2025	to	December 31, 2025
MSC 2019-L3	January 01, 2025	to	December 31, 2025
MSC 2019-PLND	January 01, 2025	to	December 31, 2025
MSC 2020-HR8	January 01, 2025	to	December 31, 2025
MSC 2021-ILP	January 01, 2025	to	July 15, 2025
MSC 2021-L6	January 01, 2025	to	December 31, 2025
MSC 2022-L8	January 01, 2025	to	December 31, 2025
MSC 2024-BPR2	January 01, 2025	to	December 31, 2025
MSCI 2016-UBS9	January 01, 2025	to	December 31, 2025
MSSG 2017-237P	January 01, 2025	to	December 31, 2025
MTK 2021-GRNY	January 01, 2025	to	April 15, 2025
MTN 2022-LPFL	January 01, 2025	to	December 31, 2025
NCMF 2022-MFP	January 01, 2025	to	June 16, 2025
NCMF 2025-MFS	June 11, 2025	to	December 31, 2025
NCMS 2019-AMZTB	January 01, 2025	to	December 31, 2025
NRTH 2025-PARK	October 15, 2025	to	December 31, 2025
NXPT 2024-STOR	January 01, 2025	to	December 31, 2025
NYC 2024-3ELV	January 01, 2025	to	December 31, 2025
NYO 2021-1290	January 01, 2025	to	December 31, 2025
OBPT 2019-OBP	January 01, 2025	to	December 31, 2025
OMPT 2017-1MKT	January 01, 2025	to	December 31, 2025
ONE 2021-PARK	January 01, 2025	to	December 31, 2025
ONNI 2024-APT	January 01, 2025	to	December 31, 2025
ONYP 2020-INYP	January 01, 2025	to	December 31, 2025
OPG 2021-PORT	January 01, 2025	to	April 15, 2025
ORL 2024-GLKS	January 01, 2025	to	December 31, 2025

PPF 2023-10	January 01, 2025	to	August 18, 2025
PRK 2017-280P	January 01, 2025	to	December 31, 2025
PRM 2025-PRM6	June 24, 2025	to	December 31, 2025
RCMF 2021-FL5	January 01, 2025	to	March 25, 2025
RCMF 2021-FL6	January 01, 2025	to	March 25, 2025
RCMF 2021-FL7	January 01, 2025	to	December 31, 2025
RCMF 2022-FL10	January 01, 2025	to	June 25, 2025
RCMF 2022-FL8	January 01, 2025	to	March 25, 2025
RCMF 2022-FL9	January 01, 2025	to	June 25, 2025
RCMF 2023-FL11	January 01, 2025	to	December 31, 2025
RCMF 2023-FL12	January 01, 2025	to	December 31, 2025
RIAL 2022-FL8	January 01, 2025	to	July 21, 2025
RIDE 2025-SHRE	February 21, 2025	to	December 31, 2025
RLGH 2021-TR0T	January 01, 2025	to	July 15, 2025
SBALR 2020-RR1	January 01, 2025	to	December 31, 2025
SCG 2024-MSP	January 01, 2025	to	December 31, 2025
SCG 2025-FLWR	August 19, 2025	to	December 31, 2025
SCOTT 2023-SFS	January 01, 2025	to	December 31, 2025
SELF 2024-STRG	January 01, 2025	to	December 31, 2025
SFO 2021-555	January 01, 2025	to	December 31, 2025
SGCMS 2016-C5	January 01, 2025	to	December 31, 2025
SGCP 2021-FL3	January 01, 2025	to	December 31, 2025
SGCP 2022-FL4	January 01, 2025	to	December 31, 2025
SGCP 2023-FL5	January 01, 2025	to	December 31, 2025
SMR 2022-IND	January 01, 2025	to	December 31, 2025
SMRT 2022-MINI	January 01, 2025	to	December 31, 2025
SPGN 2022-TFLM	January 01, 2025	to	December 31, 2025
SREIT 2021-FLWR	January 01, 2025	to	December 31, 2025
SREIT 2021-MFP	January 01, 2025	to	December 31, 2025
SREIT 2021-MFP2	January 01, 2025	to	December 31, 2025
STWD 2021-HTS	January 01, 2025	to	December 31, 2025
SWCH 2025-DATA	February 18, 2025	to	December 31, 2025
TCO 2024-DPM	January 01, 2025	to	December 31, 2025
THPT 2023-FHL	January 01, 2025	to	December 31, 2025
UBS 2017-C2	January 01, 2025	to	December 31, 2025
UBS 2017-C3	January 01, 2025	to	December 31, 2025
UBS 2017-C5	January 01, 2025	to	December 31, 2025
UBS 2018-C10	January 01, 2025	to	December 31, 2025
UBS 2018-C12	January 01, 2025	to	December 31, 2025
UBS 2018-C14	January 01, 2025	to	December 31, 2025
UBS 2018-C8	January 01, 2025	to	December 31, 2025
UBS 2019-C16	January 01, 2025	to	December 31, 2025
UBS 2019-C18	January 01, 2025	to	December 31, 2025
UBSBB 2012-C3	January 01, 2025	to	January 13, 2025
UBSBB 2013-C6	January 01, 2025	to	December 31, 2025
UNIV 2025-APTS	November 25, 2025	to	December 31, 2025
VASA 2021-VASA	January 01, 2025	to	December 31, 2025
VDCM 2025-AZ	July 10, 2025	to	December 31, 2025
VLS 2020-LAB	January 01, 2025	to	December 31, 2025
WBHT 2019-WBM	January 01, 2025	to	June 16, 2025
WBRK 2025-WBRK	March 06, 2025	to	December 31, 2025
WEST 2025-ROSE	March 28, 2025	to	December 31, 2025
WFCM 2013-LC12	January 01, 2025	to	December 31, 2025
WFCM 2014-LC18	January 01, 2025	to	December 31, 2025
WFCM 2015-LC22	January 01, 2025	to	December 31, 2025
WFCM 2016-BNK1	January 01, 2025	to	December 31, 2025
WFCM 2016-C33	January 01, 2025	to	December 31, 2025
WFCM 2016-C36	January 01, 2025	to	December 31, 2025
WFCM 2016-NXSS	January 01, 2025	to	December 31, 2025
WFCM 2017-C38	January 01, 2025	to	December 31, 2025
WFCM 2017-C42	January 01, 2025	to	December 31, 2025
WFCM 2018-C43	January 01, 2025	to	December 31, 2025
WFCM 2018-C45	January 01, 2025	to	December 31, 2025
WFCM 2018-C47	January 01, 2025	to	December 31, 2025
WFCM 2019-C50	January 01, 2025	to	December 31, 2025
WFCM 2019-C53	January 01, 2025	to	December 31, 2025
WFCM 2019-C54	January 01, 2025	to	December 31, 2025
WFCM 2020-C55	January 01, 2025	to	December 31, 2025
WFCM 2022-C62	January 01, 2025	to	December 31, 2025
WFCM 2023-J82	January 01, 2025	to	December 31, 2025
WFCM 2022-ONL	January 01, 2025	to	December 31, 2025
WFCM 2024-C63	January 01, 2025	to	December 31, 2025
WFCM 2024-MGP	January 01, 2025	to	December 15, 2025
WFCM 2025-5C5	July 30, 2025	to	December 31, 2025
WFCM 2025-5C6	October 08, 2025	to	December 31, 2025
WFCM 2025-AURA	October 15, 2025	to	December 31, 2025
WFCM 2025-C64	February 27, 2025	to	December 31, 2025
WFCM 2025-DWHP	April 23, 2025	to	December 31, 2025
WHARF 2025-DC	June 26, 2025	to	December 31, 2025
WPT 2017-WWP	January 01, 2025	to	December 31, 2025
WSTN 2023-MAUI	January 01, 2025	to	December 31, 2025

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Management of
CoreLogic Solutions, LLC:

We have examined management's assertion, included in the accompanying Management's Report on Assessment of Compliance with SEC Regulation AB Servicing Criteria, that CoreLogic Solutions, LLC, (the "Company") complied with the servicing criteria set forth in Item 1122(d) of the U.S. Securities and Exchange Commission's Regulation AB for the commercial mortgage loan outsourcing customers for which the Company served as the tax service provider (the "Platform") as of and for the year ended December 31, 2025 excluding criteria 1122(d)(1)(i-iii), 1122(d)(1)(v), 1122(d)(2)(i), 1122(d)(2)(iii-iv), 1122(d)(3)(i-iv), 1122(d)(4)(i-iii), and 1122(d)(4)(vii-v), which management has determined are not applicable to the activities performed by the Company with respect to the Platform. The Platform consists of the transactions performed for commercial mortgage loan outsourcing customers for which the Company served as the tax service provider. Management is responsible for the Company's compliance with the applicable servicing criteria. Our responsibility is to express an opinion on management's assertion about the Company's compliance with the applicable servicing criteria for the Platform based on our examination.

Our examination was conducted in accordance with the standards of the Public Company Accounting Oversight Board (United States) and in accordance with attestation standards established by the American Institute of Certified Public Accountants, and, accordingly, included examining, on a test basis, evidence about the Company's compliance with the applicable servicing criteria for the Platform and performing such other procedures as we considered necessary in the circumstances. Our examination included testing selected asset-backed transactions and securities constituting the Platform and evaluating whether the Company performed servicing activities related to those transactions and securities in compliance with the applicable servicing criteria for the period covered by this report. Accordingly, our testing may not have included servicing activities related to each asset-backed transaction or security constituting the Platform. Further, our examination was not designed to detect material noncompliance that may have occurred prior to the period covered by this report and that may have affected the Company's servicing activities during the period covered by this report. We believe that our examination provides a reasonable basis for our opinion. Our examination does not provide a legal determination on the Company's compliance with the applicable servicing criteria.

We are required to be independent and to meet our other ethical responsibilities in accordance with relevant ethical requirements relating to the engagement.

In our opinion, management's assertion that CoreLogic Solutions, LLC complied with the aforementioned applicable servicing criteria as of and for the year ended December 31, 2025 for the commercial mortgage loan outsourcing customers for which the Company served as the tax service provider is fairly stated, in all material respects.

/s/Grant Thornton LLP
Dallas, Texas
January 30, 2026

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Report of Independent Registered Public Accounting Firm

To the Audit Committee of Computershare Trust Company, National Association

We have examined management's assertion, included in the accompanying *Assessment of Compliance with the Applicable Servicing Criteria: Computershare Corporate Trust - CMBS Platform* that Computershare Trust Company, National Association (the "Company") complied with the servicing criteria set forth in Item 1122(d) of the Securities and Exchange Commission's Regulation AB for the commercial mortgage-backed securities ("CMBS") transactions backed by pools of commercial mortgage loans and/or backed by CMBS for which the Company provides trustee, securities administration, paying agent services, and/or related roles, either directly in the related role for such services or as the agent of the party performing such services, and for which either (a) some or all of the issued securities for such CMBS transactions were publicly offered pursuant to a registration statement delivered under the Securities Act of 1933, as amended, or (b) the issued securities for such CMBS transactions were privately offered pursuant to an exemption from registration and either the Company (and/or the party for whom it acts agent) has an obligation under the transaction agreements to deliver an assessment of compliance with the applicable servicing criteria under Item 1122(d) of Regulation AB, provided however that, the platform excludes any transactions for which the offered securities were issued, sponsored and/or guaranteed by any agency or instrumentality of the U.S. government or any government-sponsored entity (the "CMBS Platform"), as of December 31, 2025 and for the year then ended (the "Period"), excluding criteria 1122(d)(4)(ii), 1122(d)(4)(iv), 1122(d)(4)(v), 1122(d)(4)(vi), 1122(d)(4)(vii), 1122(d)(4)(viii), 1122(d)(4)(ix), 1122(d)(4)(x), 1122(d)(4)(xi), 1122(d)(4)(xii), 1122(d)(4)(xiii) and 1122(d)(4)(xiv), which Management has determined are not applicable to either the Company's obligations, or the obligations of the party for whom the Company ultimately acts as agent, in either case under the related transaction agreements with respect to the CMBS Platform for the Period (as applicable, the "Company's Obligations"); provided however that, with respect to the CMBS Platform (a) servicing criterion 1122(d)(1)(v) is applicable only to the Company's Obligations related to the aggregation of information received and the conveyance of such information, in each case, as required by the transaction agreements, and (b) servicing criterion 1122(d)(4)(iii) is applicable only to the Company's Obligations related to the process of making or effecting an addition, removal or substitution to the asset pool in accordance with the transaction agreements.

As described in management's assertion, for servicing criteria 1122(d)(4)(i) and 1122(d)(2)(vi), the Company has engaged various vendors to perform the activities required by these servicing criteria. The Company has determined that these vendors are not considered "servicers" as defined in Item 1101(i) of Regulation AB, and the Company has elected to take responsibility for assessing compliance with the servicing criteria applicable to each vendor as permitted by Compliance and Disclosure Interpretation 200.06 of the SEC Division of Corporation Finance's interpretations of the rules adopted under Regulation AB and the Securities Act and the Exchange Act ("Interpretation 200.06"). As permitted by Interpretation 200.06, the Company has asserted that it has policies and procedures in place designed to provide reasonable assurance that the vendors' activities comply in all material respects with the servicing criteria applicable to each vendor. The Company is solely responsible for determining that it meets the SEC requirements to apply Interpretation 200.06 for the vendors and related criteria as described in its assertion, and we performed no procedures with respect to the Company's determination of its eligibility to use Interpretation 200.06.

Appendix A to management's assertion identifies the individual asset-backed transactions and securities defined by management as constituting the CMBS Platform.

The Company's management is responsible for its assertion and for the Company's compliance with the applicable servicing criteria. Our responsibility is to express an opinion on management's assertion about the Company's compliance with the applicable servicing criteria based on our examination.

Our examination was conducted in accordance with the attestation standards of the Public Company Accounting Oversight Board (United States) and in accordance with attestation standards established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform the examination to obtain reasonable assurance about whether management's assertion about compliance with the applicable servicing criteria is fairly stated, in all material respects, and, accordingly, included examining, on a test basis, evidence about the Company's compliance with the applicable servicing criteria and performing such other procedures as we considered necessary in the circumstances. Our examination included testing of selected asset-backed transactions and securities that comprise the CMBS Platform, testing of selected servicing activities related to the CMBS Platform, and determining whether the Company processed those selected transactions and performed those selected activities in compliance with the applicable servicing criteria. Our procedures were limited to the selected transactions and servicing activities performed by the Company during the period covered by this report. Our procedures were not designed to detect noncompliance arising from errors that may have occurred prior to or subsequent to our tests that may have affected the balances or amounts calculated or reported by the Company during the period covered by this report. We believe that our examination provides, and that the evidence we obtained is sufficient and appropriate to provide, a reasonable basis for our opinion. Our examination does not provide a legal determination on the Company's compliance with the servicing criteria.

We are required to be independent and to meet our other ethical responsibilities in accordance with relevant ethical requirements related to the engagement.

In our opinion, management's assertion that Computershare Trust Company, National Association complied with the aforementioned applicable servicing criteria as of and for the year ended December 31, 2025 for the CMBS Platform is fairly stated, in all material respects.

/s/ PricewaterhouseCoopers LLP

Boston, Massachusetts
February 18, 2026

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Commercial Mortgage Servicing
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550 South Tryon Street
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ANNUAL STATEMENT OF COMPLIANCE

Per the applicable Servicing Agreement for each of the transactions listed on Schedule I hereto, the undersigned, a duly authorized officer of Wells Fargo Bank, N.A., in its applicable capacity(ies) as listed on Schedule I ("Wells Fargo"), hereby certifies as follows as of and for the year commencing January 1, 2025 and ending February 28, 2025 (the "Reporting Period"):

1. A review of Wells Fargo's activities during the Reporting Period and of its performance under the applicable Servicing Agreement has been made under such officer's supervision; and
2. To the best of such officer's knowledge, based on such review, Wells Fargo has fulfilled all of its obligations under the applicable Servicing Agreement in all material respects throughout the Reporting Period.

IN WITNESS WHEREOF, the undersigned has executed this Certificate as of the 10th day of March 2026.

/s/ Brian Murdock
Brian Murdock
Managing Director
Wells Fargo Bank

Wells Fargo Bank, N.A.

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SCHEDULE I			
Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)
BANK 2018-BNK15	Pooling and Servicing Agreement	11/1/2018	General Master Servicer
111Mass-2Perm 2006	Pooling and Servicing Agreement	8/18/2006	Master Servicer
1211 Avenue of the Americas	Trust and Servicing Agreement	8/27/2015	Servicer/Special Servicer
20 Times Square Trust 2018-2018	Trust and Servicing Agreement	5/23/2018	Servicer/Special Servicer
225 Liberty Trust 2016-225L	Trust and Servicing Agreement	2/6/2016	Servicer
245 Park Ave Trust 245P	Trust and Servicing Agreement	5/30/2017	Servicer
280 Park Ave 2017-280P	Trust and Servicing Agreement	9/28/2017	Master/Special Servicer
ACAM 2019-FL1	Servicing Agreement	12/7/2019	Servicer
ACCORMEZZ	Servicing Agreement	6/1/2017	Servicer
ACM 2016-1	Pooling and Servicing Agreement	5/1/2016	Master/Special Servicer
ACORE CREDIT IV REIT (WF) SPV LC	Servicing Agreement	11/16/2018	Servicer
ACRE 2014-FL2	Servicing Agreement	8/15/2014	Servicer
ACRE 2017-FL3	Servicing Agreement	3/2/2017	Servicer
ACRE 2021-FL4	Servicing Agreement	1/28/2021	Servicer
AHFT 2019-FAIR	Trust and Servicing Agreement	10/15/2019	Servicer
AHPT 2017-ATRM	Trust and Servicing Agreement	12/29/2017	Servicer/Special Servicer
AHPT 2018-ATRM	Trust and Servicing Agreement	6/19/2019	Servicer/Special Servicer
AHT 2018-ASHF	Trust and Servicing Agreement	5/15/2018	Servicer/Special Servicer
AHT 2018-KEYS	Pooling and Servicing Agreement	7/16/2018	Master Servicer
ALEN 2021-ACEN	Trust and Servicing Agreement	3/24/2021	Servicer
Americold 2010-ART	Trust and Servicing Agreement	12/15/2010	Master/Special Servicer
AOA 2015-1177	Trust and Servicing Agreement	1/9/2015	Master/Special Servicer
AOA 2021-1177	Trust and Servicing Agreement	11/4/2021	Master Servicer
ARCHETYPE	Servicing Agreement	1/20/2011	Servicer
AREIT 2018-CLO	Servicing Agreement	2/28/2018	Servicer
AREIT 2018-CRE1 (CLO)	Servicing Agreement	2/28/2018	Servicer
AREIT 2018-CRE2	Servicing Agreement	11/15/2018	Servicer
AREIT 2019-CRE3	Servicing Agreement	8/29/2019	Servicer
AREIT 2020-CRE4	Servicing Agreement	5/21/2020	Servicer
Aventura Mall 2018-AVM	Trust and Servicing Agreement	6/29/2018	Servicer
BACM 2016-UBS10	Pooling and Servicing Agreement	6/1/2016	Master Servicer
BACM 2017-BNK3	Pooling and Servicing Agreement	2/1/2017	Master Servicer
BAML 2014-520M	Trust and Servicing Agreement	8/19/2014	Master Servicer/Special Servicer
BAMLL 2014-FL1	Pooling and Servicing Agreement	12/18/2014	Master/Special Servicer
BAMLL 2015-200P	Trust and Servicing Agreement	4/23/2015	Master Servicer
BAMLL 2015-ASTR	Trust and Servicing Agreement	8/18/2015	Servicer
BAMLL 2016-ISQR	Pooling and Servicing Agreement	8/17/2016	Master Servicer
BAMLL 2016-SS1	Trust and Servicing Agreement	2/17/2016	Servicer
BAMLL 2017-SCH	Trust and Servicing Agreement	12/15/2017	Servicer
BAMLL 2018-DSNY	Trust and Servicing Agreement	11/6/2018	Servicer/Special Servicer
BAMLL 2020-BOC	Trust and Servicing Agreement	2/27/2020	Servicer/Special Servicer
BAMLL 2021-IACX	Trust and Servicing Agreement	9/15/2021	Servicer
Bancorp 2016-CRE1	Pooling and Servicing Agreement	12/6/2016	Master Servicer
BANCORP 2017-CRE2	Pooling and Servicing Agreement	8/30/2017	Master Servicer
Bancorp 2018-CRE3	Pooling and Servicing Agreement	3/29/2018	Master Servicer
Bancorp 2018-CRE4	Pooling and Servicing Agreement	9/27/2018	Master Servicer
BANCORPWH	Servicing Agreement	9/7/2012	Servicer
BANK 2017-BNK4	Pooling and Servicing Agreement	4/1/2017	Master Servicer
BANK 2017-BNK5	Pooling and Servicing Agreement	6/1/2017	Master Servicer
BANK 2017-BNK6	Pooling and Servicing Agreement	7/1/2017	General Master Servicer
BANK 2017-BNK7	Pooling and Servicing Agreement	9/1/2017	Master Servicer
BANK 2017-BNK8	Pooling and Servicing Agreement	11/1/2017	Master Servicer
BANK 2017-BNK9	Pooling and Servicing Agreement	12/1/2017	Master Servicer
BANK 2018-BNK10	Pooling and Servicing Agreement	2/1/2018	General Master Servicer
BANK 2018-BNK11	Pooling and Servicing Agreement	4/1/2018	General Master Servicer
BANK 2018-BNK12	Pooling and Servicing Agreement	5/1/2018	General Master Servicer
BANK 2018-BNK13	Pooling and Servicing Agreement	8/1/2018	General Master Servicer
BANK 2018-BNK14	Pooling and Servicing Agreement	9/1/2018	General Master Servicer
BANK 2019-BNK16	Pooling and Servicing Agreement	2/1/2019	General Master Servicer
BANK 2019-BNK17	Pooling and Servicing Agreement	4/1/2019	Master Servicer
BANK 2019-BNK18	Pooling and Servicing Agreement	5/1/2019	General Master Servicer

BANK 2019-BNK19	Pooling and Servicing Agreement	8/1/2019	General Master Servicer
BANK 2019-BNK20	Pooling and Servicing Agreement	9/1/2019	General Master Servicer
BANK 2019-BNK21	Pooling and Servicing Agreement	10/1/2019	Master Servicer
BANK 2019-BNK22	Pooling and Servicing Agreement	11/1/2019	General Master Servicer
BANK 2019-BNK23	Pooling and Servicing Agreement	12/1/2019	Master Servicer
BANK 2019-BNK24	Pooling and Servicing Agreement	12/1/2019	General Master Servicer
BANK 2020-BNK25	Pooling and Servicing Agreement	2/1/2020	General Master Servicer
BANK 2020-BNK26	Pooling and Servicing Agreement	3/1/2020	General Master Servicer
BANK 2020-BNK27	Pooling and Servicing Agreement	6/1/2020	Master Servicer
BANK 2020-BNK28	Pooling and Servicing Agreement	9/1/2020	Master Servicer
BANK 2020-BNK29	Pooling and Servicing Agreement	11/1/2020	Master Servicer
BANK 2020-BNK30	Pooling and Servicing Agreement	12/1/2020	Master Servicer
BANK 2021-BNK31	Pooling and Servicing Agreement	2/1/2021	General Master Servicer
BANK 2021-BNK32	Pooling and Servicing Agreement	3/1/2021	General Master Servicer
BANK 2021-BNK33	Pooling and Servicing Agreement	5/1/2021	General Master Servicer
BANK 2021-BNK34	Pooling and Servicing Agreement	6/1/2021	General Master Servicer
BANK 2021-BNK35	Pooling and Servicing Agreement	8/1/2021	General Master Servicer
BANK 2021-BNK36	Pooling and Servicing Agreement	10/1/2021	General Master Servicer
BANK 2021-BNK37	Pooling and Servicing Agreement	11/1/2021	General Master Servicer
BANK 2021-BNK38	Pooling and Servicing Agreement	12/1/2021	General Master Servicer
BARCLAYSWH	Servicing Agreement	1/24/2012	Servicer
BB UBS 2012 SHOW	Trust and Servicing Agreement	11/1/2012	Servicer/Special Servicer
BB UBS 2012 TFT	Pooling and Servicing Agreement	12/1/2012	Servicer/Special Servicer
BBCMS 2015-SLP	Trust and Servicing Agreement	3/1/2015	Servicer
BBCMS 2015-SLP MZ A	Trust and Servicing Agreement	3/1/2015	First Mezz Servicer
BBCMS 2016-ETC	Trust and Servicing Agreement	8/1/2016	Master Servicer
BBCMS 2017-C1	Pooling and Servicing Agreement	2/1/2017	Master Servicer
BBCMS 2017-GLKS	Trust and Servicing Agreement	11/29/2017	Servicer
BBCMS 2018-C2	Pooling and Servicing Agreement	12/1/2018	Master Servicer
BBCMS 2018-CHRS	Trust and Servicing Agreement	8/9/2018	Servicer/Special Servicer
BBCMS 2018-RRJ	Trust and Servicing Agreement	2/27/2018	Servicer
BBCMS 2019-C4	Pooling and Servicing Agreement	8/1/2019	Master Servicer
BBCMS 2019-CLP	Trust and Servicing Agreement	2/27/2019	Servicer
BBCMS 2020-C7	Pooling and Servicing Agreement	6/1/2020	Master Servicer
BBCMS 2020-C8	Pooling and Servicing Agreement	10/1/2020	Special Servicer
BBCMS 2021-C11	Pooling and Servicing Agreement	9/1/2021	Master Servicer
BBCMS Trust 2013-TYSN	Trust and Servicing Agreement	8/1/2013	Servicer/Special Servicer
BBSG 2016-MRP	Trust and Servicing Agreement	6/1/2016	Servicer
BDS 2018-FL1 (CLO)	Servicing Agreement	2/27/2018	Servicer/Special Servicer
BDS 2018-FL2	Servicing Agreement	8/7/2018	Servicer/Special Servicer
BDS 2019-FL3	Servicing Agreement	2/8/2019	Servicer/Special Servicer
BDS 2019-FL4	Servicing Agreement	7/30/2019	Servicer/Special Servicer
BDS 2020-FL5	Servicing Agreement	1/24/2020	Servicer/Special Servicer
BDS 2020-FL6	Servicing Agreement	9/30/2020	Servicer/Special Servicer
BDS 2021-FL10	Servicing Agreement	12/2/2021	Servicer/Special Servicer
BDS 2021-FL7	Servicing Agreement	5/24/2021	Servicer/Special Servicer
BDS 2021-FL8	Servicing Agreement	8/5/2021	Servicer/Special Servicer
BDS 2021-FL9	Servicing Agreement	10/13/2021	Servicer/Special Servicer
Benchmark 2018-B1	Pooling and Servicing Agreement	1/1/2018	Master Servicer
Berkshire Mezz	Mezzanine Servicing Agreement	12/11/2020	Servicer
BHMS 2014-ATLS	Trust and Servicing Agreement	8/1/2014	Master/Special Servicer
BHMS 2018-ATLS	Trust and Servicing Agreement	7/9/2018	Servicer
BHR 2018-PRME	Trust and Servicing Agreement	6/6/2018	Servicer/Special Servicer
BLCP 2014-CLRN	Trust and Servicing Agreement	10/6/2014	Servicer
BMARK 2018-B4	Pooling and Servicing Agreement	7/1/2018	Master Servicer
BMARK 2018-B5	Pooling and Servicing Agreement	8/1/2018	Master Servicer
BMARK 2019-B9	Pooling and Servicing Agreement	2/1/2019	Master Servicer
BPR 2021-TY	Trust and Servicing Agreement	9/23/2021	Servicer
BROERMWH	Servicing Agreement	12/27/2012	Servicer
BSREP 2021-DC	Trust and Servicing Agreement	8/16/2021	Servicer
BWAY 2015-1740	Trust and Servicing Agreement	2/6/2015	Master Servicer
BX 2018-EXCL	Trust and Servicing Agreement	10/15/2018	Servicer
BX 2018-IND	Trust and Servicing Agreement	10/10/2018	Servicer
BX 2021-2IM	Trust and Servicing Agreement	11/8/2021	Servicer
BX 2021-PAC	Trust and Servicing Agreement	11/2/2021	Master Servicer
BX 2021-VIEW	Trust and Servicing Agreement	6/15/2021	Servicer
BX 2021-VINO	Trust and Servicing Agreement	5/27/2021	Servicer
BX 2021-XL2	Trust and Servicing Agreement	10/9/2021	Servicer
BX Trust 2017-CQHP	Trust and Servicing Agreement	11/30/2017	Servicer
BXHPP 2021-FILM	Trust and Servicing Agreement	8/26/2021	Servicer
BXHTL 2015-JWRZ	Pooling and Servicing Agreement	6/30/2015	Master/Special Servicer
BXP 2017-CC	Trust and Servicing Agreement	8/9/2017	Servicer
BXP 2017-GM	Trust and Servicing Agreement	6/9/2017	Servicer
BXP 2021-601L	Trust and Servicing Agreement	12/29/2021	Servicer
CAMB 2019-LIFE	Trust and Servicing Agreement	1/9/2019	Servicer
CapSource 2006-A	Servicing Agreement	6/29/2011	Servicer
CCRE 2015-RUM	Trust and Servicing Agreement	7/28/2015	Master/Special Servicer
CD 2016-CD2	Pooling and Servicing Agreement	12/1/2016	Master Servicer
CD 2017-CD5	Pooling and Servicing Agreement	8/1/2017	Master Servicer
CD 2017-CD6	Pooling and Servicing Agreement	11/1/2017	Master Servicer
CFCRE 2016-C3	Pooling and Servicing Agreement	1/1/2016	Master Servicer

CFCRE 2016-C4	Pooling and Servicing Agreement	5/1/2016	Master Servicer
CFCRE 2016-C6	Pooling and Servicing Agreement	11/1/2016	Master Servicer
CFCRE 2017-C8	Pooling and Servicing Agreement	9/1/2017	Master Servicer
CGCMT 2012-GC8	Pooling and Servicing Agreement	9/1/2012	Master Servicer
CGCMT 2013-375P	Trust and Servicing Agreement	5/6/2013	Servicer/Special Servicer
CGCMT 2013-GC15	Pooling and Servicing Agreement	9/1/2013	Master Servicer
CGCMT 2013-GC17	Pooling and Servicing Agreement	12/1/2013	Master Servicer
CGCMT 2013-GCJ11	Pooling and Servicing Agreement	4/1/2013	Master Servicer
CGCMT 2014-GC19	Pooling and Servicing Agreement	3/1/2014	Master Servicer
CGCMT 2014-GC21	Pooling and Servicing Agreement	5/1/2014	Master Servicer
CGCMT 2014-GC25	Pooling and Servicing Agreement	10/1/2014	Master Servicer
CGCMT 2015-GC27	Pooling and Servicing Agreement	2/1/2015	Master Servicer
CGCMT 2015-GC31	Pooling and Servicing Agreement	7/1/2015	Master Servicer
CGCMT 2015-GC33	Pooling and Servicing Agreement	9/1/2015	Master Servicer
CGCMT 2015-P1	Pooling and Servicing Agreement	8/1/2015	Master Servicer
CGCMT 2016-C1	Pooling and Servicing Agreement	5/1/2016	Master Servicer
CGCMT 2016-GC36	Pooling and Servicing Agreement	2/1/2016	Special Servicer
CGCMT 2016-GC37	Pooling and Servicing Agreement	4/2/2016	Master Servicer
CGCMT 2016-P3	Pooling and Servicing Agreement	4/1/2016	Master Servicer
CGCMT 2016-P4	Pooling and Servicing Agreement	7/1/2016	Master Servicer
CGCMT 2017-B1	Pooling and Servicing Agreement	8/1/2017	Master Servicer
CGCMT 2017-MDDR	Trust and Servicing Agreement	7/6/2017	Servicer
CGCMT 2017-P7	Pooling and Servicing Agreement	4/1/2017	Master Servicer
CGCMT 2017-P8	Pooling and Servicing Agreement	9/1/2017	Master Servicer
CGCMT 2018-C6	Pooling and Servicing Agreement	12/1/2018	Master Servicer
CGCMT 2019-C7	Pooling and Servicing Agreement	12/1/2019	Master Servicer
CGCMT 2019-GC43	Pooling and Servicing Agreement	11/1/2019	Master Servicer
CGWF 2013-RKWH	Trust and Servicing Agreement	12/9/2013	Servicer
CHT 2017-COSMO	Trust and Servicing Agreement	12/15/2017	Master/Special Servicer
City Center Trust 2011-CCHP	Trust and Servicing Agreement	8/8/2011	Servicer/Special Servicer
CLMT 2016-CLNE	Trust and Servicing Agreement	11/18/2016	Master Servicer/Special Servicer
CLNS 2017-1KMZ	Trust and Servicing Agreement	5/30/2017	Servicer/Special Servicer
CLNS 2017-1KPR	Trust and Servicing Agreement	6/6/2017	Servicer
COLD 2017-ICE3	Trust and Servicing Agreement	4/28/2017	Servicer
Comm 2010-C1	Pooling and Servicing Agreement	11/1/2010	Master Servicer
COMM 2011-FL1	Pooling and Servicing Agreement	10/1/2011	Master Servicer
COMM 2012-CCRE1	Pooling and Servicing Agreement	5/1/2012	Master Servicer
COMM 2012-CCRE2	Pooling and Servicing Agreement	8/1/2012	Master Servicer
COMM 2012-CCRE3	Pooling and Servicing Agreement	10/1/2012	Master Servicer
COMM 2012-CCRE4	Pooling and Servicing Agreement	11/1/2012	Master Servicer
COMM 2012-FL2	Pooling and Servicing Agreement	11/1/2012	Master Servicer
COMM 2012-LC4	Pooling and Servicing Agreement	3/1/2012	Master Servicer
COMM 2013-CCRE10	Pooling and Servicing Agreement	8/1/2013	Master Servicer
COMM 2013-CCRE12	Pooling and Servicing Agreement	11/1/2013	Master Servicer
COMM 2013-CCRE13	Pooling and Servicing Agreement	12/1/2013	Master Servicer
COMM 2013-CCRE6	Pooling and Servicing Agreement	3/1/2013	Master Servicer
COMM 2013-WWP	Trust and Servicing Agreement	4/1/2013	Master/Special Servicer
COMM 2014-277P	Trust and Servicing Agreement	8/6/2014	Master Servicer
COMM 2014-CCRE14	Pooling and Servicing Agreement	1/1/2014	Master Servicer
COMM 2014-CCRE15	Subservicing Agreement	2/1/2014	Sub-Servicer
COMM 2014-CCRE20	Pooling and Servicing Agreement	10/1/2014	Master Servicer
COMM 2014-FL4	Pooling and Servicing Agreement	8/20/2014	Master Servicer
COMM 2014-FL5	Pooling and Servicing Agreement	12/2/2014	Master/General Special Servicer
COMM 2014-LC15	Pooling and Servicing Agreement	3/1/2014	Master Servicer
COMM 2014-LC17	Pooling and Servicing Agreement	9/1/2014	Master Servicer
COMM 2014-PAT	Trust and Servicing Agreement	9/1/2014	Master/Special Servicer
COMM 2014-UBS3	Pooling and Servicing Agreement	6/1/2014	Master Servicer
COMM 2014-UBS5	Pooling and Servicing Agreement	9/1/2014	Master Servicer
COMM 2015-3BP	Trust and Servicing Agreement	2/6/2015	Master/Special Servicer
COMM 2015-CCRE22	Pooling and Servicing Agreement	3/1/2015	Master Servicer
COMM 2015-CCRE23	Pooling and Servicing Agreement	5/1/2015	Sub-Servicer
COMM 2015-CCRE24	Pooling and Servicing Agreement	8/1/2015	Master Servicer
COMM 2015-CCRE25	Pooling and Servicing Agreement	8/1/2015	Master Servicer
COMM 2015-CCRE26	Pooling and Servicing Agreement	10/1/2015	Master Servicer
COMM 2015-LC23	Pooling and Servicing Agreement	11/1/2015	Master Servicer
COMM 2015-PC1	Pooling and Servicing Agreement	7/1/2015	Master Servicer
COMM 2016-787S	Trust and Servicing Agreement	3/1/2016	Master/Special Servicer
COMM 2016-CCRE28	Pooling and Servicing Agreement	2/1/2016	Master Servicer
COMM 2016-DC2	Pooling and Servicing Agreement	3/1/2016	Master Servicer
COMM 2017-DLTA	Trust and Servicing Agreement	10/3/2017	Master Servicer
COMM 2017-PANW	Trust and Servicing Agreement	10/1/2017	Master Servicer/Special Servicer
COMM 2018-HOME	Pooling and Servicing Agreement	6/1/2018	Master Servicer
COMM 2020-CX	Trust and Servicing Agreement	11/5/2020	Master Servicer
Community South 2007-1	Pooling and Servicing Agreement	8/22/2007	Successor Servicer
CORE 2015-CALW	Trust and Servicing Agreement	4/9/2015	Servicer/Special Servicer
CORE 2015-TEXW	Trust and Servicing Agreement	4/16/2015	Servicer/Special Servicer
CORE 2015-WEST	Trust and Servicing Agreement	4/16/2015	Servicer/Special Servicer
CORE 2019-CORE	Trust and Servicing Agreement	3/15/2019	Servicer
CPLV Trust 2017-VICI	Trust and Servicing Agreement	11/30/2017	Servicer
CPTS 2019-CPT	Trust and Servicing Agreement	11/9/2019	Master Servicer

CSAIL 2015-C2	Pooling and Servicing Agreement	5/1/2015	Master Servicer
CSAIL 2015-C4	Pooling and Servicing Agreement	11/1/2015	Master Servicer
CSAIL 2016-C7	Pooling and Servicing Agreement	11/1/2016	Master Servicer
CSAIL 2017-C8	Pooling and Servicing Agreement	6/1/2017	Master Servicer
CSAIL 2018-C14	Pooling and Servicing Agreement	11/1/2018	Master Servicer
CSAIL 2018-CX12	Pooling and Servicing Agreement	8/1/2018	Master Servicer
CSCMT 2007-C2	Pooling and Servicing Agreement	5/1/2007	Master Servicer
CSCMT 2007-C3	Pooling and Servicing Agreement	6/1/2007	Master Servicer
CSCMT 2007-C3	Pooling and Servicing Agreement	6/1/2007	Master Servicer
CSMC 2014-USA	Trust and Servicing Agreement	9/11/2014	Servicer
CSMC 2016-NXSR	Pooling and Servicing Agreement	12/1/2016	Master Servicer
CSMC 2017-CHOP	Trust and Servicing Agreement	6/28/2017	Servicer
CSMC 2017-TIME	Trust and Servicing Agreement	12/1/2017	Master/Special Servicer
CSMC 2018-SITE	Trust and Servicing Agreement	12/6/2018	Servicer
CSMC2017-PFHP	Trust and Servicing Agreement	12/19/2017	Servicer
CST 2017-SKY	Trust and Servicing Agreement	3/30/2017	Servicer/Special Servicer
CSWF 2018-TOP	Trust and Servicing Agreement	8/28/2018	Servicer
CWSF 2021-SOP2	Trust and Servicing Agreement	6/29/2021	Servicer
DBC 2017-BBG	Trust and Servicing Agreement	6/29/2017	Master/Special Servicer
DBGS 2018-C1	Pooling and Servicing Agreement	10/1/2018	Master Servicer
DBJPM 2016-C1	Pooling and Servicing Agreement	11/1/2016	Master Servicer
DBJPM 2016-SFC	Trust and Servicing Agreement	8/1/2016	Master Servicer
DBUBS 2011-LC3	Pooling and Servicing Agreement	8/1/2011	Master Servicer
DBUBS 2011-LC3	Pooling and Servicing Agreement	8/1/2011	Special Servicer (Providence Place Mall)
DBUBS 2017-BRKB	Trust and Servicing Agreement	10/1/2017	Master Servicer
DBUSB 2011-LC1	Pooling and Servicing Agreement	2/1/2011	Master Servicer
DBWF 2015-LCM	Trust and Servicing Agreement	6/25/2019	Master Servicer
DBWF 2016-8ST	Trust and Servicing Agreement	12/6/2016	Master Servicer
DBWF 2018-AMXP	Trust and Servicing Agreement	5/1/2018	Master Servicer
DCOT 2019-MTC	Trust and Servicing Agreement	10/30/2018	Servicer
DOLP 2021-NYC	Trust and Servicing Agreement	4/20/2021	Servicer
Extended Stay America Trust 2010-ESH	Trust and Servicing Agreement	11/1/2010	Master/Special Servicer
First Key 2015-SFR1	Pooling and Servicing Agreement	4/1/2015	Master Servicer
FIVEMILE	Servicing Agreement	10/24/2012	Servicer
Freddie Mac 2011-K15	Pooling and Servicing Agreement	11/1/2011	Master/Special Servicer
Freddie Mac 2011-K702	Pooling and Servicing Agreement	6/1/2011	Master Servicer
Freddie Mac 2011-K703	Pooling and Servicing Agreement	9/1/2011	Master Servicer
Freddie Mac 2012-K706	Pooling and Servicing Agreement	2/1/2012	Master Servicer
Freddie Mac 201-K12 (SS Only)	Pooling and Servicing Agreement	4/1/2011	Special Servicer
Freddie Mac Comm 2010 K8	Pooling and Servicing Agreement	9/1/2010	Master Servicer
FREMF 2012-K18 (Special)	Pooling and Servicing Agreement	5/1/2012	Special Servicer
FREMF 2012-K23	Pooling and Servicing Agreement	12/1/2012	Master Servicer
FREMF 2012-K711	Pooling and Servicing Agreement	11/1/2012	Master/Special Servicer
FREMF 2013-K26	Pooling and Servicing Agreement	5/1/2013	Master Servicer
FREMF 2013-K27	Pooling and Servicing Agreement	5/1/2013	Special Servicer
FREMF 2013-K28	Pooling and Servicing Agreement	6/1/2013	Special Servicer
FREMF 2013-K29	Pooling and Servicing Agreement	7/1/2013	Master Servicer
FREMF 2013-K32	Sub Servicing Agreement	9/1/2013	Sub-Servicer
FREMF 2013-K34	Pooling and Servicing Agreement	11/1/2013	Master/Special Servicer
FREMF 2013-K502	Sub Servicing Agreement	3/1/2013	Sub-Servicer
FREMF 2013-K712	Pooling and Servicing Agreement	4/1/2013	Special Servicer
FREMF 2013-K501	Pooling and Servicing Agreement	5/1/2013	Special Servicer
FREMF 2014-K36	Pooling and Servicing Agreement	2/1/2014	Master Servicer/Special Servicer
FREMF 2014-K37 (Primary)	Pooling and Servicing Agreement	3/1/2014	Sub-Servicer
FREMF 2014-K38	Pooling and Servicing Agreement	6/1/2014	Special Servicer/Primary
FREMF 2014-K39 (Primary)	Pooling and Servicing Agreement	9/1/2014	Sub-Servicer
FREMF 2014-K41	Pooling and Servicing Agreement	12/1/2014	Servicer/Special Servicer
FREMF 2014-K716	Pooling and Servicing Agreement	9/1/2014	Master/Special Servicer
FREMF 2014-KF03 (Primary)	Sub Servicing Agreement	4/1/2014	Servicer
FREMF 2014-KF05	Pooling and Servicing Agreement	11/1/2014	Master Servicer
FREMF 2014-K502	Pooling and Servicing Agreement	5/1/2014	Master/Special Servicer
FREMF 2014-KX01(primary)	Sub Servicing Agreement	7/1/2014	Servicer
FREMF 2015-K45	Pooling and Servicing Agreement	5/1/2015	Primary/Special Servicer
FREMF 2015-K46	Pooling and Servicing Agreement	6/1/2015	Special Servicer/Sub-Servicer
FREMF 2015-K47	Pooling and Servicing Agreement	7/1/2015	Master Servicer
FREMF 2015-K50(WF Primary)	Sub Servicing Agreement	11/1/2015	Servicer
FREMF 2015-K719	Pooling and Servicing Agreement	8/1/2015	Special Servicer
FREMF 2015-K721	Pooling and Servicing Agreement	12/1/2015	Master Servicer
FREMF 2015-KF10 (WF Primary)	Sub Servicing Agreement	10/1/2015	Servicer
FREMF 2015-KF11	Pooling and Servicing Agreement	11/1/2015	Master Servicer
FREMF 2015-KJ01 (WF Primary)	Sub Servicing Agreement	3/1/2015	Sub-Servicer
FREMF 2015-KKA (WF Primary)	Sub Servicing Agreement	3/1/2015	Sub-Servicer
FREMF 2015-K503	Pooling and Servicing Agreement	10/1/2015	Master Servicer
FREMF 2016-K55	Pooling and Servicing Agreement	6/1/2016	Master Servicer/Special Servicer
FREMF 2016-K56	Sub Servicing Agreement	8/1/2016	Sub-Servicer
FREMF 2016-K60	Pooling and Servicing Agreement	12/1/2016	Master Servicer
FREMF 2016-KBAM	Pooling and Servicing Agreement	2/1/2016	Special Servicer
FREMF 2016-KBAM	Pooling and Servicing Agreement	2/1/2016	Primary/Special Servicer
FREMF 2016-KF14	Pooling and Servicing Agreement	3/1/2016	Master/Special Servicer

FREMF 2016-KF15	Pooling and Servicing Agreement	4/1/2016	Master Servicer
FREMF 2016-KF16 (Special)	Pooling and Servicing Agreement	5/1/2016	Special Servicer
FREMF 2016-KF18	Pooling and Servicing Agreement	7/1/2016	Special Servicer/Primary Servicer
FREMF 2016-KF19	Pooling and Servicing Agreement	8/1/2016	Master Servicer
FREMF 2016-KF20	Pooling and Servicing Agreement	9/1/2016	Primary Servicer/Special
FREMF 2016-KF21	Sub-Servicing Agreement	9/1/2016	Sub-Servicer
FREMF 2016-KJ09	Pooling and Servicing Agreement	11/1/2016	Primary/Back Up Special Servicer
FREMF 2016-KS06	Pooling and Servicing Agreement	10/1/2016	Master Servicer
FREMF 2016-KS07	Pooling and Servicing Agreement	10/1/2016	Master/Special Servicer
FREMF 2016-KIR1	Pooling and Servicing Agreement	3/1/2025	Primary Servicer
FREMF 2017-K61	Pooling and Servicing Agreement	12/1/2017	Master/Special Servicer
FREMF 2017-K67	Pooling and Servicing Agreement	9/1/2017	Master Servicer
FREMF 2017-K68 (Primary and Special)	Pooling and Servicing Agreement	10/1/2017	Primary Servicer/Special Servicer
FREMF 2017-K69	Pooling and Servicing Agreement	11/1/2017	Master Servicer
FREMF 2017-K725 (Primary and Special)	Pooling and Servicing Agreement	4/1/2017	Special Servicer/Sub-Servicer
FREMF 2017-K729	Pooling and Servicing Agreement	12/1/2017	Master Servicer
FREMF 2017-KBF1	Pooling and Servicing Agreement	8/1/2017	Master/Special Servicer
FREMF 2017-KF28	Pooling and Servicing Agreement	3/1/2017	Master Servicer
FREMF 2017-KF37	Pooling and Servicing Agreement	10/1/2017	Master Servicer
FREMF 2017-KF40	Pooling and Servicing Agreement	12/1/2017	Master Servicer/Special Servicer
FREMF 2017-KGS1	Pooling and Servicing Agreement	12/1/2017	Master/Special Servicer
FREMF 2017-KS08	Pooling and Servicing Agreement	5/1/2017	Master Servicer
FREMF 2017-KSW3	Pooling and Servicing Agreement	8/1/2017	Special Servicer
FREMF 2018-K73	Sub-Servicing Agreement	2/1/2018	Primary Servicer
FREMF 2018-K77	Pooling and Servicing Agreement	6/1/2018	Master Servicer
FREMF 2018-K79 (Primary & Special)	Pooling and Servicing Agreement	8/1/2018	Special Servicer/Sub-Servicer
FREMF 2018-K81	Pooling and Servicing Agreement	10/1/2018	Master Servicer
FREMF 2018-K84	Pooling and Servicing Agreement	11/1/2018	Master Servicer/Special Servicer
FREMF 2018-KBF2	Pooling and Servicing Agreement	12/1/2018	Master Servicer/Special Servicer
FREMF 2018-KBX1	Pooling and Servicing Agreement	3/1/2018	Master Servicer
FREMF 2018-KF42	Pooling and Servicing Agreement	2/1/2018	Master Servicer
FREMF 2018-KF50	Pooling and Servicing Agreement	9/1/2018	Master Servicer
FREMF 2018-KF53	Pooling and Servicing Agreement	11/1/2018	Special Servicer/Primary Servicer
FREMF 2018-KF55	Pooling and Servicing Agreement	12/1/2018	Master Servicer
FREMF 2018-KF56	Pooling and Servicing Agreement	12/1/2018	Master Servicer/Special Servicer
FREMF 2018-KI01 (Special Only)	Pooling and Servicing Agreement	2/1/2018	Special Servicer
FREMF 2018-KI03 (Special)	Pooling and Servicing Agreement	10/1/2018	Special Servicer
FREMF 2018-KJ19 (Primary & Primary Special)	Pooling and Servicing Agreement	3/1/2018	Primary Special Servicer
FREMF 2018-KL02	Pooling and Servicing Agreement	3/1/2018	Master Servicer/Special Servicer (Pantzer and Bedrock Loan)
FREMF 2018-KSL1 (Special)	Trust and Servicing Agreement	12/1/2018	Special Servicer
FREMF 2018-KW05	Pooling and Servicing Agreement	6/1/2018	Special Servicer/Sub-Servicer
FREMF 2019-K100	Pooling and Servicing Agreement	11/1/2019	Master Servicer/Special Servicer
FREMF 2019-K102	Pooling and Servicing Agreement	12/1/2019	Master Servicer/Special Servicer
FREMF 2019-K734	Pooling and Servicing Agreement	4/1/2019	Master Servicer/Special Servicer
FREMF 2019-K735	Pooling and Servicing Agreement	7/1/2019	Master Servicer
FREMF 2019-K736	Pooling and Servicing Agreement	9/1/2019	Special Servicer/Primary Servicer
FREMF 2019-K92	Pooling and Servicing Agreement	5/1/2019	Master Servicer/Special Servicer
FREMF 2019-K94	Pooling and Servicing Agreement	7/1/2019	Master Servicer/Special Servicer
FREMF 2019-KBF3	Pooling and Servicing Agreement	1/1/2019	Master Servicer/Special Servicer
FREMF 2019-KF60 (Primary & Special)	Pooling and Servicing Agreement	3/1/2019	Special Servicer/Sub-Servicer
FREMF 2019-KF73	Pooling and Servicing Agreement	12/1/2019	Master Servicer
FREMF 2019-KJ27	Pooling and Servicing Agreement	11/1/2019	Backup Special Servicer/Primary Servicer
FREMF 2019-KS12	Pooling and Servicing Agreement	9/1/2019	Master Servicer
FREMF 2019-KW10	Pooling and Servicing Agreement	11/1/2019	Master Servicer/Special Servicer
FREMF 2020-K104	Sub-Servicing Agreement	2/1/2020	Primary Servicer
FREMF 2020-K108	Pooling and Servicing Agreement	5/1/2020	Master and Special Servicer
FREMF 2020-K109	Sub-Servicing Agreement	5/1/2020	Primary
FREMF 2020-K111	Sub-Servicing Agreement	7/1/2020	Primary
FREMF 2020-K112	Sub-Servicing Agreement	7/1/2020	Primary
FREMF 2020-K113	Sub-Servicing Agreement	8/1/2020	Primary
FREMF 2020-K114	Pooling and Servicing Agreement	8/1/2020	Master Servicer
FREMF 2020-K115	Pooling and Servicing Agreement	9/1/2020	Master Servicer
FREMF 2020-K116	Pooling and Servicing Agreement	9/1/2020	Master and Special Servicer
FREMF 2020-K118	Sub-Servicing Agreement	10/1/2020	Primary
FREMF 2020-K119	Sub-Servicing Agreement	11/1/2020	Primary
FREMF 2020-K122	Sub-Servicing Agreement	12/1/2020	Primary
FREMF 2020-K157	Sub-Servicing Agreement	9/1/2020	Primary
FREMF 2020-K737	Sub-Servicing Agreement	1/1/2020	Primary Servicer
FREMF 2020-K738	Pooling and Servicing Agreement	5/1/2020	Primary and Special
FREMF 2020-K739	Sub-Servicing Agreement	11/1/2020	Primary Servicer
FREMF 2020-K740	Sub-Servicing Agreement	11/1/2020	Primary Servicer
FREMF 2020-KF74	Sub-Servicing Agreement	2/1/2020	Primary Servicer
FREMF 2020-KF75	Pooling and Servicing Agreement	3/1/2020	Master Servicer
FREMF 2020-KF77	Sub-Servicing Agreement	4/1/2020	Primary Servicer
FREMF 2020-KF78	Pooling and Servicing Agreement	4/1/2020	Master Servicer
FREMF 2020-KF79	Pooling and Servicing Agreement	6/1/2020	Master Servicer
FREMF 2020-KF81	Pooling and Servicing Agreement	7/1/2020	Master Servicer
FREMF 2020-KF82	Pooling and Servicing Agreement	8/1/2020	Special Servicer
FREMF 2020-KF83	Sub-Servicing Agreement	8/1/2020	Primary
FREMF 2020-KF86	Sub-Servicing Agreement	10/1/2020	Primary
FREMF 2020-KF88	Pooling and Servicing Agreement	10/1/2020	Master Servicer
FREMF 2020-KF89	Pooling and Servicing Agreement	10/1/2020	Master Servicer

FREMF 2020-KF90	Pooling and Servicing Agreement	11/1/2020	Master Servicer
FREMF 2020-KF91	Pooling and Servicing Agreement	11/1/2020	Master Servicer
FREMF 2020-KF92	Pooling and Servicing Agreement	11/1/2020	Master Servicer
FREMF 2020-KF93	Pooling and Servicing Agreement	12/1/2020	Master and Special Servicer
FREMF 2020-KF94	Sub-Servicing Agreement	12/1/2020	Primary Servicer
FREMF 2020-KF95	Pooling and Servicing Agreement	12/1/2020	Master Servicer
FREMF 2020-KG04	Pooling and Servicing Agreement	12/1/2020	Master Servicer
FREMF 2020-KHG2	Trust and Servicing Agreement	3/1/2020	Master Servicer/Special Servicer
FREMF 2020-KJ05	Sub-Servicing Agreement	1/1/2020	Primary Servicer
FREMF 2020-KJ28	Sub-Servicing Agreement	2/1/2020	Primary Servicer
FREMF 2020-KJ29	Sub-Servicing Agreement	6/1/2020	Primary
FREMF 2020-KJ30	Sub-Servicing Agreement	7/1/2020	Primary
FREMF 2020-KJ31	Sub-Servicing Agreement	10/1/2020	Primary
FREMF 2020-KJ32	Pooling and Servicing Agreement	11/1/2020	Special Servicer
FREMF 2020-KS14	Pooling and Servicing Agreement	9/1/2020	Master Servicer
FREMF 2020-KSG1	Sub-Servicing Agreement	10/1/2020	Primary
FREMF 2020-KX04	Pooling and Servicing Agreement	9/1/2020	Primary and Special
FS Rialto 2019-FL1	Servicing Agreement	12/5/2019	Servicer
FS RIALTO 2021-FL2	Servicing Agreement	5/5/2021	Servicer
FS RIALTO 2021-FL3	Servicing Agreement	11/4/2021	Servicer
FUNB 2001-C2	Pooling and Servicing Agreement	6/10/2001	Master Servicer
GACM 2019-FL1	Sub Servicing Agreement	6/6/2019	Servicer
GACM 2020-FL2	Servicing Agreement	1/5/2020	Servicer
GAHR 2015-NRF	Trust and Servicing Agreement	2/9/2015	Servicer
GCFCFC 2004-GG1	Pooling and Servicing Agreement	5/13/2004	Master Servicer
GCFCFC 2004-GG1	Pooling and Servicing Agreement	5/13/2004	Master Servicer
GCFCFC 2007-GG9	Pooling and Servicing Agreement	3/1/2007	Master Servicer
Goldman One Market Plaza 2017-1MBKT	Trust and Servicing Agreement	2/6/2017	Servicer/Special Servicer
GPBLT 2005-1	Pooling and Servicing Agreement	7/13/2005	Master Servicer
GPMT 2018-FL1	Pooling and Servicing Agreement	5/9/2018	Master Servicer
GPMT 2019-FL2	Sub Servicing Agreement	2/28/2019	Servicer
GPMT 2021-FL3	Servicing Agreement	5/14/2021	Servicer
GRACE 2014-GRCE	Trust and Servicing Agreement	6/6/2014	Master Servicer
GRACE 2020-GRCE	Trust and Servicing Agreement	11/18/2020	Master Servicer
Greenwich 2007-GG11	Pooling and Servicing Agreement	10/1/2007	Master Servicer
GS 2013-GC13	Pooling and Servicing Agreement	7/1/2013	Master Servicer
GS 2016-GS4	Pooling and Servicing Agreement	11/1/2016	Master Servicer/Special Servicer
GS 2017-STAY	Trust and Servicing Agreement	8/15/2017	Servicer
GSMS 2010-C2	Pooling and Servicing Agreement	12/1/2010	Master Servicer
GSMS 2011-GC3	Pooling and Servicing Agreement	3/1/2011	Master Servicer
GSMS 2011-GC5	Pooling and Servicing Agreement	10/1/2011	Master Servicer
GSMS 2012 -TMSQ	Trust and Servicing Agreement	12/1/2012	Servicer/Special Servicer
GSMS 2012-BWTR	Trust and Servicing Agreement	12/1/2012	Servicer/Special Servicer
GSMS 2012-GC7	Pooling and Servicing Agreement	6/1/2012	Master Servicer
GSMS 2012GCF9	Pooling and Servicing Agreement	11/1/2012	Master Servicer
GSMS 2012-SHOP	Trust and Servicing Agreement	8/1/2012	Servicer/Special Servicer
GSMS 2013-GC10	Pooling and Servicing Agreement	2/1/2013	Master Servicer
GSMS 2013-GC12	Pooling and Servicing Agreement	5/1/2013	Master Servicer
GSMS 2013-GC14	Pooling and Servicing Agreement	8/1/2013	Master Servicer
GSMS 2013-GC14	Pooling and Servicing Agreement	8/1/2013	Master Servicer
GSMS 2013-GC16	Pooling and Servicing Agreement	11/1/2013	Master Servicer
GSMS 2013-KING	Trust and Servicing Agreement	2/1/2013	Servicer/Special Servicer
GSMS 2013-KYO	Trust and Servicing Agreement	2/15/2013	Servicer/Special Servicer
GSMS 2014-GC18	Pooling and Servicing Agreement	1/1/2014	Master Servicer
GSMS 2014-GC22	Pooling and Servicing Agreement	6/1/2014	Master Servicer
GSMS 2014-GC26	Pooling and Servicing Agreement	12/1/2014	Master Servicer
GSMS 2015-590M	Trust and Servicing Agreement	11/10/2015	Servicer
GSMS 2015-GC28	Pooling and Servicing Agreement	2/1/2015	Master Servicer
GSMS 2015-GC34	Pooling and Servicing Agreement	10/1/2015	Master Servicer
GSMS 2015-GS1 (Special)	Pooling and Servicing Agreement	11/1/2015	Special Servicer
GSMS 2016-RENT	Trust and Servicing Agreement	3/18/2016	Master/Special Servicer
GSMS 2016-RENT	Trust and Servicing Agreement	3/18/2016	Servicer/Special Servicer
GSMS 2017-375H	Trust and Servicing Agreement	9/6/2017	Servicer
GSMS 2017-500K	Trust and Servicing Agreement	8/15/2017	Servicer/Special Servicer
GSMS 2017-GS7	Pooling and Servicing Agreement	8/1/2017	Master Servicer
GSMS 2017-GS8	Pooling and Servicing Agreement	11/1/2017	Master Servicer
GSMS 2017-SLP	Trust and Servicing Agreement	10/6/2017	Servicer/Special Servicer
GSMS 2018-3PCK	Trust and Servicing Agreement	9/27/2018	Servicer
GSMS 2018-CHILL	Trust and Servicing Agreement	3/5/2018	Servicer/Special Servicer
GSMS 2018-GS10	Pooling and Servicing Agreement	7/1/2018	Master Servicer
GSMS 2018-GS9	Pooling and Servicing Agreement	3/1/2018	Master Servicer
GSMS 2018-RIVR	Trust and Servicing Agreement	7/27/2018	Servicer/Special Servicer
GSMS 2018-SPR5	Trust and Servicing Agreement	11/15/2018	Servicer
GSMS 2018-TWR	Trust and Servicing Agreement	7/31/2018	Servicer
GSMS 2019-GC38	Pooling and Servicing Agreement	2/1/2019	Master Servicer
GSMS 2020-GC47	Pooling and Servicing Agreement	5/1/2020	Master Servicer
GSMS 2021-ARDN	Trust and Servicing Agreement	11/10/2021	Special Servicer
GSMS 2021-GSA3	Pooling and Servicing Agreement	12/1/2021	Master Servicer
GSMS 2021-IP	Trust and Servicing Agreement	10/15/2021	Servicer
GSMSC 2006-GSFL VIII	Pooling and Servicing Agreement	8/10/2006	Master/Special Servicer

GSMSC 2010-C1	Pooling and Servicing Agreement	8/1/2010	Master/Special Servicer
H2 Financial Funding 1 (WF Repo)	Servicing Agreement	5/9/2011	Servicer
H2 SO III (WF REPO)	Servicing Agreement	7/14/2015	Servicer
H2 Finmarket Funding (Shearson Fisherman's Wharf) Strategic	Servicing and Sub-Servicing Agreement	1/31/2017	Sub-Servicer
H2 SO III (WF Repo)/Washington Sub	Servicing Agreement	7/14/2015	Servicer
HBST 2015-HBS	Trust and Servicing Agreement	11/1/2015	Servicer
HERA 2021-FL1	Servicing Agreement	2/25/2021	Servicer
Hilton Orlando Trust 2018-ORL	Trust and Servicing Agreement	3/6/2018	Servicer
Hilton USA Trust 2016-HHV	Trust and Servicing Agreement	11/28/2016	Servicer
Hilton USA Trust 2016-SFP	Trust and Servicing Agreement	11/22/2016	Servicer/Special Servicer
HMH 2017-NSS	Trust and Servicing Agreement	6/28/2017	Servicer
HUDSON YARDS 2016-10HY	Trust and Servicing Agreement	8/6/2016	Master Servicer
Hudson Yards 2019-30HY	Trust and Servicing Agreement	7/6/2019	Master Servicer
Hudson Yards 2019-55HY	Trust and Servicing Agreement	12/6/2019	Master Servicer
IMT 2017-APTS	Trust and Servicing Agreement	7/9/2017	Servicer
JAX 2019-LIC	Trust and Servicing Agreement	11/15/2019	Servicer
JP Morgan 2012-C6	Pooling and Servicing Agreement	4/1/2012	Master Servicer
JP Morgan CHT 2016-COSMO	Trust and Servicing Agreement	11/9/2016	Master Servicer/Special Servicer
JP Morgan PCT 2016-PLSD	Trust and Servicing Agreement	4/29/2016	Master/Special Servicer
JPMBB 2013-C15	Pooling and Servicing Agreement	10/1/2013	Master Servicer
JPMBB 2013-C17	Pooling and Servicing Agreement	12/1/2013	Master Servicer
JPMBB 2014-C21	Pooling and Servicing Agreement	7/1/2014	Master Servicer
JPMBB 2014-C22	Pooling and Servicing Agreement	8/1/2014	Master Servicer
JPMBB 2014-C23	Pooling and Servicing Agreement	9/1/2014	Master Servicer
JPMBB 2014-C24	Pooling and Servicing Agreement	10/1/2014	Master Servicer
JPMBB 2014-C25	Pooling and Servicing Agreement	11/1/2014	Master
JPMBB 2015-C28	Pooling and Servicing Agreement	4/1/2015	Master Servicer
JPMBB 2015-C29	Pooling and Servicing Agreement	6/1/2015	Master Servicer
JPMBB 2015-C30	Pooling and Servicing Agreement	7/1/2015	Master Servicer
JPMBB 2015-C32	Pooling and Servicing Agreement	10/1/2015	Master Servicer
JPMBB 2015-C33	Pooling and Servicing Agreement	11/1/2015	Master Servicer
JPMBB 2016-C1	Pooling and Servicing Agreement	3/1/2016	Master Servicer
JPMC 2005-LDP2	Pooling and Servicing Agreement	6/1/2005	Master Servicer
JPMC 2006-LDP7	Pooling and Servicing Agreement	6/1/2006	Master Servicer
JPMC 2006-LDP9	Pooling and Servicing Agreement	12/1/2006	Master Servicer
JPMC 2012-CIBX	Pooling and Servicing Agreement	6/1/2012	Master Servicer
JPMCC 2011-PLSD	Trust and Servicing Agreement	12/9/2011	Servicer/Special Servicer
JPMCC 2013-ALC	Trust and Servicing Agreement	8/21/2013	Servicer/Special Servicer
JPMCC 2013-C16	Pooling and Servicing Agreement	11/1/2013	Master Servicer
JPMCC 2014-C20	Pooling and Servicing Agreement	7/1/2015	Master Servicer
JPMCC 2014-DSTY	Trust and Servicing Agreement	8/4/2014	Servicer/Special Servicer
JPMCC 2014-FL5	Pooling and Servicing Agreement	9/29/2014	Master Servicer
JPMCC 2015-COSMO	Trust and Servicing Agreement	3/30/2015	Servicer/Special Servicer
JPMCC 2015-JP1	Pooling and Servicing Agreement	12/1/2015	Master Servicer
JPMCC 2016-ASH	Trust and Servicing Agreement	11/30/2016	Master Servicer
JPMCC 2016-JP2	Pooling and Servicing Agreement	7/1/2016	Master Servicer
JPMCC 2016-NDE	Trust and Servicing Agreement	9/26/2016	Master Servicer/Special Servicer
JPMCC 2017-FL10	Pooling and Servicing Agreement	8/10/2017	Servicer
JPMCC 2017-JP7	Pooling and Servicing Agreement	7/1/2017	Master Servicer
JPMCC 2017-MARK	Trust and Servicing Agreement	6/1/2017	Servicer/Special Servicer
JPMCC 2018-ASH8	Trust and Servicing Agreement	2/28/2018	Servicer/Special Servicer
JPMCC 2018-LAQ	Trust and Servicing Agreement	7/6/2018	Servicer
JPMCC 2018-PTC	Trust and Servicing Agreement	5/16/2018	Servicer
JPMCC 2021-1440	Trust and Servicing Agreement	3/5/2021	Special Servicer
JPMCC 2021-2NU	Trust and Servicing Agreement	1/29/2021	Servicer
JPMDB 2016-C2	Pooling and Servicing Agreement	5/1/2016	Master Servicer
JPMDB 2016-C4	Pooling and Servicing Agreement	11/1/2016	Master Servicer
JPMDB 2016-JP4	Pooling and Servicing Agreement	12/1/2016	Master Servicer
JPMDB 2017-C5	Pooling and Servicing Agreement	3/1/2017	Master Servicer
JPMDB 2018-C8	Pooling and Servicing Agreement	6/1/2018	Master Servicer
JWM 2017 Mezzanine Trust	Trust and Servicing Agreement	2/1/2017	Servicer/Special Servicer
LB 1998-C4	Pooling and Servicing Agreement	11/1/1998	Master Servicer
LB 1999-C1	Pooling and Servicing Agreement	6/1/1999	Master Servicer
LBUBS 2001-C3	Pooling and Servicing Agreement	7/1/2001	Master Servicer
LBUBS 2003-C8	Pooling and Servicing Agreement	11/11/2003	Master Servicer
LBUBS 2004-C1	Pooling and Servicing Agreement	1/12/2004	Master Servicer
LBUBS 2004-C4	Pooling and Servicing Agreement	5/11/2004	Master Servicer
LBUBS 2004-C6	Pooling and Servicing Agreement	8/11/2004	Master Servicer
LBUBS 2004-C8	Pooling and Servicing Agreement	11/12/2004	Master Servicer
LBUBS 2005-C1	Pooling and Servicing Agreement	1/11/2005	Master Servicer
LBUBS 2005-C5	Pooling and Servicing Agreement	8/11/2005	Master Servicer
LBUBS 2005-C5	Pooling and Servicing Agreement	8/11/2005	Master Servicer
LBUBS 2005-C7	Pooling and Servicing Agreement	10/11/2005	Master Servicer
LBUBS 2006-C3	Pooling and Servicing Agreement	3/13/2006	Master Servicer
LBUBS 2006-C4	Pooling and Servicing Agreement	6/12/2006	Master Servicer
LBUBS 2006-C6	Pooling and Servicing Agreement	9/11/2006	Master Servicer
LBUBS 2006-C7	Pooling and Servicing Agreement	11/13/2006	Master Servicer
LCCM 2013-GCP	Trust and Servicing Agreement	3/1/2013	Master/Special Servicer
LCCM 2014-909	Trust and Servicing Agreement	6/1/2014	Master Servicer

LCCM 2017-FL1	Servicing Agreement	10/17/2017	Servicer
LCCM 2017-FL2	Pooling and Servicing Agreement	12/21/2017	Servicer/Special Servicer
LCCM 2017-LC26	Pooling and Servicing Agreement	6/1/2017	Master Servicer
LCCM 2020-FL3	Servicing Agreement	4/27/2020	Servicer/Special Servicer
LCCM 2021-FL2	Servicing Agreement	7/13/2021	Servicer
LCCM 2021-FL3	Servicing Agreement	12/2/2021	Servicer
Leonardo Asset Fund	Mezzanine Servicing Agreement	9/23/2020	Servicer
Lone Star LSTAR I, LLC (WF Repo)	Servicing Agreement	9/22/2016	Servicer
LSTAR 2015-3	Pooling and Servicing Agreement	6/1/2015	Master Servicer
LSTAR 2016-4	Pooling and Servicing Agreement	6/1/2016	Master Servicer
LSTAR 2017-5	Pooling and Servicing Agreement	3/1/2017	Master Servicer
LVSIREPO	Servicing Agreement	12/15/2008	Servicer
MAD 2017-330M	Trust and Servicing Agreement	8/15/2017	Servicer
Manhattan West 2020-1MW	Trust and Servicing Agreement	8/28/2020	Master Servicer
MED 2021-MDLN	Trust and Servicing Agreement	11/15/2021	Servicer/Special Servicer
MKT 2020-525M	Trust and Servicing Agreement	2/26/2020	Servicer
MOFT 2020-ABC	Trust and Servicing Agreement	2/26/2020	Servicer
MS2012-C6	Pooling and Servicing Agreement	10/1/2012	Master Servicer
MSBAM 2013-C11	Pooling and Servicing Agreement	8/1/2013	Master Servicer
MSBAM 2013-C12	Pooling and Servicing Agreement	10/1/2013	Master Servicer
MSBAM 2013-C13	Pooling and Servicing Agreement	12/1/2013	Master Servicer
MSBAM 2013-C8	Pooling and Servicing Agreement	2/1/2013	Master Servicer
MSBAM 2014-C14	Pooling and Servicing Agreement	2/1/2014	Master Servicer
MSBAM 2014-C15	Pooling and Servicing Agreement	4/1/2014	Master Servicer
MSBAM 2014-C16	Pooling and Servicing Agreement	6/1/2014	Master Servicer
MSBAM 2014-C17	Pooling and Servicing Agreement	8/1/2014	Master Servicer
MSBAM 2014-C18	Pooling and Servicing Agreement	9/1/2014	Master Servicer
MSBAM 2014-C19	Pooling and Servicing Agreement	12/1/2014	Master Servicer
MSBAM 2015-C22	Pooling and Servicing Agreement	4/1/2015	Master Servicer
MSBAM 2015-C23	Pooling and Servicing Agreement	6/1/2015	Master/Excluded Mortgage Loan Special Servicer
MSBAM 2015-C24	Pooling and Servicing Agreement	8/1/2015	Master Servicer
MSBAM 2015-C25	Pooling and Servicing Agreement	10/1/2015	Master Servicer
MSBAM 2015-C26	Pooling and Servicing Agreement	11/1/2015	Master Servicer and initial Excluded Special Servicer
MSBAM 2015-C27	Pooling and Servicing Agreement	11/1/2015	Master Servicer
MSBAM 2016-C28	Pooling and Servicing Agreement	2/1/2016	Master Servicer
MSBAM 2016-C29	Pooling and Servicing Agreement	5/1/2016	Master Servicer
MSBAM 2016-C30	Pooling and Servicing Agreement	9/1/2016	Master Servicer
MSBAM 2016-C31	Pooling and Servicing Agreement	11/1/2016	Master Servicer
MSBAM 2016-C32	Pooling and Servicing Agreement	12/1/2016	Master Servicer
MSBAM 2017-C33	Pooling and Servicing Agreement	5/1/2017	Master Servicer
MSBAM 2017-C34	Pooling and Servicing Agreement	10/1/2017	Master Servicer
MSC 2011-C3	Pooling and Servicing Agreement	10/1/2011	Master Servicer
MSC 2014-MP	Trust and Servicing Agreement	11/7/2014	Servicer/Special Servicer
MSC 2016-BNK2	Pooling and Servicing Agreement	11/1/2016	Master Servicer
MSC 2016-PSQ	Trust and Servicing Agreement	2/1/2016	Servicer/Special Servicer
MSC 2017-ASH	Trust and Servicing Agreement	12/9/2017	Servicer
MSC 2017-4R2	Pooling and Servicing Agreement	12/1/2017	Master Servicer
MSC 2018-H3	Pooling and Servicing Agreement	7/1/2018	Master Servicer
MSC 2018-MP	Trust and Servicing Agreement	8/7/2018	Servicer/Special Servicer
MSC 2019-L3	Pooling and Servicing Agreement	11/1/2019	Master Servicer
MSC 2020-HR8	Pooling and Servicing Agreement	7/1/2020	Master Servicer
MSC 2021-PLZA	Trust and Servicing Agreement	11/1/2021	Servicer/Special Servicer
MSCCG 2018-SELF	Trust and Servicing Agreement	10/30/2018	Servicer/Special Servicer
MSCI 2007-HQ13	Pooling and Servicing Agreement	12/1/2007	Master Servicer
MSCI 2007-IQ14 (Primary only)	Pooling and Servicing Agreement	5/1/2007	Master/ Special Servicer
MSCI 2015-420	Trust and Servicing Agreement	3/7/2015	Servicer/Special Servicer
MSDBM 2017-712F	Trust and Servicing Agreement	7/25/2017	Servicer/Special Servicer
MSDWMC 2000-F1	Pooling and Servicing Agreement	9/1/2000	Master Servicer
MSJP 2015-HAUL	Trust and Servicing Agreement	10/1/2015	Servicer/Special Servicer
MSSG 2017-237P	Trust and Servicing Agreement	8/9/2017	Servicer/Special Servicer
MTRO 2019-TECH	Trust and Servicing Agreement	2/9/2019	Servicer
NCMS 2018-ALXA	Trust and Servicing Agreement	2/23/2018	Servicer
NCMS 2018-FL1	Pooling and Servicing Agreement	7/6/2018	Servicer
NCMS 2018-TECH	Trust and Servicing Agreement	1/31/2018	Servicer/Special Servicer
New Orleans 2019-HNLA	Trust and Servicing Agreement	5/15/2019	Servicer
NLY 2014-FL1	Pooling and Servicing Agreement	1/1/2014	Master Servicer
NRFCIREPO	Servicing Agreement	10/15/2013	Servicer
NSREITDOR	Servicing Agreement	6/2/2015	Servicer
NXT Capital Funding II	Servicing Agreement	7/28/2010	Servicer
NYT 2019-NYT	Trust and Servicing Agreement	1/30/2019	Master Servicer
ONE BRYANT PARK 2019-OBP	Servicing Agreement	8/21/2019	Master Servicer/Special Servicer
ONYP 2020-INYP	Trust and Servicing Agreement	12/29/2020	Master Servicer
PPF 2015-2	Pooling and Servicing Agreement	8/3/2015	Master Servicer
PPF 2017-3	Servicing Agreement	3/22/2017	Master Servicer
PPF 2017-4	Servicing Agreement	10/5/2017	Master/Special Servicer
PPF 2019-5	Pooling and Servicing Agreement	4/25/2019	Master/ Special Servicer
PPF 2019-6	Pooling and Servicing Agreement	12/5/2019	Master/Special Servicer
PPF III 2014-1	Pooling and Servicing Agreement	5/9/2014	Master Servicer
PPFIII	Pooling and Servicing Agreement	5/9/2014	Master Servicer

PFIIIWFB	Pooling and Servicing Agreement	5/9/2014	Master Servicer
QCMT 2013-QC	Trust and Servicing Agreement	1/1/2013	Servicer/Special Servicer
RBS 2010-MBI	Pooling and Servicing Agreement	4/22/2010	Master/Special Servicer
RBSFCF 2013-GSP	Trust and Servicing Agreement	12/6/2013	Master/Special Servicer
RBSFCF 2013-SMV	Trust and Servicing Agreement	2/1/2013	Servicer/Special Servicer
RESOURCE 2014-CRE2	Servicing Agreement	7/30/2014	Servicer
RESOURCEREP	Servicing Agreement	2/27/2012	Servicer
ROC Debt Strategies II	Pooling and Servicing Agreement	10/24/2016	Master Servicer
RSO 2015-CRE3	Servicing Agreement	2/24/2015	Servicer
RSO 2015-CRE4	Servicing Agreement	8/18/2015	Servicer
Sasco 2008-C2	Pooling and Servicing Agreement	5/22/2008	Master Servicer
SBL 2016-KIND	Trust and Servicing Agreement	3/6/2016	Master/Special Servicer
Series 2013-SRP1	Trust and Servicing Agreement	12/1/2013	Master/Special Servicer
SGCM 2016-C5	Pooling and Servicing Agreement	7/1/2016	Master Servicer
SGCMS 2019-787E	Trust and Servicing Agreement	2/20/2019	Servicer
SGCMS 2020-COVE	Trust and Servicing Agreement	2/12/2020	Servicer
SGCP 2018-FL1	Servicing Agreement	7/31/2018	Servicer/Special Servicer
SFAVE 2015-SAVE	Trust and Servicing Agreement	2/11/2015	Master/Special Servicer
SLG 2021-OVA	Trust and Servicing Agreement	6/24/2021	Servicer
SLGJPMREPO	Servicing Agreement	1/28/2013	Servicer
SREIT 2021-FLWR	Trust and Servicing Agreement	7/22/2021	Servicer
SREIT 2021-IND	Trust and Servicing Agreement	10/28/2021	Servicer/Special Servicer
SREIT 2021-MFP	Trust and Servicing Agreement	11/9/2021	Servicer
SREIT 2021-PALM	Trust and Servicing Agreement	10/21/2021	Servicer
SRPT 2014-STAR	Trust and Servicing Agreement	11/14/2014	Servicer/Special Servicer
STARCTI6	Servicing Agreement	3/26/2012	Servicer
STWD 2018-URB	Trust and Servicing Agreement	9/9/2018	Servicer
STWD 2019-FL1	Servicing Agreement	8/15/2019	Servicer
STWD 2021-FL2	Servicing Agreement	5/5/2021	Servicer
STWD 2021-HTS	Trust and Servicing Agreement	7/29/2021	Servicer
STWD 2021-HTS	Trust and Servicing Agreement	7/29/2021	Servicer
STWD 2021-LIH	Trust and Servicing Agreement	11/22/2021	Servicer
Theradson COMM 2011-THCNL	Trust and Servicing Agreement	7/1/2011	Servicer/Special Servicer
Times Square Hotel Trust 2001	Trust and Servicing Agreement	8/9/2001	Servicer
TMSQ 2014-1500	Trust and Servicing Agreement	10/10/2014	Master/Special Servicer
TRTX 2018-FL1	Sub Servicing Agreement	2/14/2018	Servicer
TRU 2016-TOYS	Trust and Servicing Agreement	11/3/2016	Master Servicer/Special Servicer
UBS 2012-C1	Pooling and Servicing Agreement	5/1/2012	Master Servicer
UBS 2017-C1	Pooling and Servicing Agreement	6/1/2017	Master Servicer
UBS 2017-C4	Pooling and Servicing Agreement	10/1/2017	Master Servicer
UBS 2017-C6	Pooling and Servicing Agreement	12/1/2017	Master Servicer
UBS 2017-C7	Pooling and Servicing Agreement	12/1/2017	Master Servicer
UBS 2018-C10	Pooling and Servicing Agreement	5/1/2018	Master Servicer
UBS 2019-C17	Pooling and Servicing Agreement	10/1/2019	Master Servicer
UBS 2019-C18	Pooling and Servicing Agreement	12/1/2019	Master Servicer
UBS-Barclays 2012-C2	Pooling and Servicing Agreement	7/1/2012	Master Servicer
UBS-Barclays 2012-C4	Pooling and Servicing Agreement	12/1/2012	Master Servicer
UBS-Citigroup 2011-C1	Pooling and Servicing Agreement	12/1/2011	Master Servicer
UBSCM 2018-NYCH	Trust and Servicing Agreement	2/26/2018	Master Servicer
UCB 2007-1	Pooling and Servicing Agreement	8/31/2007	Servicer/ Special Servicer
US 2018-USDC	Trust and Servicing Agreement	6/9/2018	Servicer/Special Servicer
VLS 2020-LAB	Trust and Servicing Agreement	11/6/2020	Master Servicer
Vornado DP LLC 2010-VNO	Trust and Servicing Agreement	8/18/2010	Servicer/Special Servicer
WABR 2016-BOCA	Trust and Servicing Agreement	7/18/2016	Special Servicer
Wachovia 2004-C11	Pooling and Servicing Agreement	4/1/2004	Master Servicer
Wachovia 2004-C15	Pooling and Servicing Agreement	11/1/2004	Master/ Special Servicer
Wachovia 2005-C21	Pooling and Servicing Agreement	10/1/2005	Master Servicer
WACHOVIA 2006-C24	Pooling and Servicing Agreement	3/1/2006	Master Servicer
Wachovia 2007-C31	Pooling and Servicing Agreement	5/1/2007	Master Servicer
Wachovia 2007-C33	Pooling and Servicing Agreement	8/1/2007	Master Servicer
Wachovia CRE CDO 2006-1	Pooling and Servicing Agreement	7/11/2006	Master/Special Servicer
WB FNB 2004-1	Trust and Servicing Agreement	4/22/2004	Master/Special Servicer
WB RDI 2004-1	Trust and Servicing Agreement	4/22/2004	Master/Special Servicer
WBHT 2019-WBM	Trust and Servicing Agreement	2/20/2019	Servicer
WFCG 2015-BXRP	Trust and Servicing Agreement	4/1/2015	Servicer
WFCM 2013-120B	Trust and Servicing Agreement	3/1/2013	Master/Special Servicer
WFCM 2013-BTC	Trust and Servicing Agreement	4/1/2013	Master Servicer
WFCM 2013-LC12	Pooling and Servicing Agreement	7/1/2013	Master Servicer
WFCM 2014-LC16	Pooling and Servicing Agreement	6/1/2014	Master Servicer
WFCM 2014-LC18	Pooling and Servicing Agreement	12/1/2014	General Master Servicer
WFCM 2014-TISH	Pooling and Servicing Agreement	3/1/2014	Master Servicer
WFCM 2015-C26	Pooling and Servicing Agreement	2/1/2015	General Master Servicer
WFCM 2015-C27	Pooling and Servicing Agreement	3/1/2015	Master Servicer
WFCM 2015-C28	Pooling and Servicing Agreement	5/1/2015	Master Servicer
WFCM 2015-C29	Pooling and Servicing Agreement	6/1/2015	General Master Servicer
WFCM 2015-C30	Pooling and Servicing Agreement	8/1/2015	Master Servicer
WFCM 2015-C31	Pooling and Servicing Agreement	11/1/2015	Master Servicer
WFCM 2015-LC20	Pooling and Servicing Agreement	9/1/2015	General Master Servicer
WFCM 2015-LC22	Pooling and Servicing Agreement	9/1/2015	General Master Servicer
WFCM 2015-NXS1	Pooling and Servicing Agreement	4/1/2015	Master Servicer

WFCM 2015-NXS2	Pooling and Servicing Agreement	7/1/2015	Master Servicer
WFCM 2015-NXS3	Pooling and Servicing Agreement	10/1/2015	General Master Servicer
WFCM 2015-NXS4	Pooling and Servicing Agreement	12/1/2015	Master Servicer
WFCM 2015-P2	Pooling and Servicing Agreement	12/1/2015	Master Servicer
WFCM 2015-SG1	Pooling and Servicing Agreement	8/1/2015	Master Servicer
WFCM 2016-BNK1	Pooling and Servicing Agreement	8/1/2016	Master Servicer
WFCM 2016-C32	Pooling and Servicing Agreement	2/1/2016	Master Servicer
WFCM 2016-C33	Pooling and Servicing Agreement	3/1/2016	Master Servicer
WFCM 2016-C34	Pooling and Servicing Agreement	5/1/2016	Master Servicer
WFCM 2016-C35	Pooling and Servicing Agreement	7/1/2016	Master Servicer
WFCM 2016-C36	Pooling and Servicing Agreement	11/1/2016	Master Servicer
WFCM 2016-C37	Pooling and Servicing Agreement	12/1/2016	Master Servicer
WFCM 2016-LC24	Pooling and Servicing Agreement	9/1/2016	Master Servicer
WFCM 2016-LC25	Pooling and Servicing Agreement	12/1/2016	Master Servicer
WFCM 2016-NXS5	Pooling and Servicing Agreement	2/1/2016	Master Servicer
WFCM 2016-NXS6	Pooling and Servicing Agreement	10/1/2016	Master Servicer
WFCM 2017-C38	Pooling and Servicing Agreement	7/1/2017	Master Servicer
WFCM 2017-C39	Pooling and Servicing Agreement	8/1/2017	Master Servicer
WFCM 2017-C40	Pooling and Servicing Agreement	10/1/2017	Master Servicer
WFCM 2017-C41	Pooling and Servicing Agreement	11/1/2017	Master Servicer
WFCM 2017-C42	Pooling and Servicing Agreement	12/1/2017	Master Servicer
WFCM 2017-HSDB	Trust and Servicing Agreement	11/30/2017	Servicer
WFCM 2017-RB1	Pooling and Servicing Agreement	3/1/2017	Master Servicer
WFCM 2017-RC1	Pooling and Servicing Agreement	3/1/2017	General Master Servicer
WFCM 2017-SMP	Trust and Servicing Agreement	12/21/2017	Servicer
WFCM 2018-1745	Trust and Servicing Agreement	7/2/2018	Servicer
WFCM 2018-AUS	Trust and Servicing Agreement	7/30/2018	Servicer
WFCM 2018-BX1	Trust and Servicing Agreement	1/25/2018	Servicer
WFCM 2018-C43	Pooling and Servicing Agreement	3/1/2018	Master Servicer
WFCM 2018-C44	Pooling and Servicing Agreement	5/1/2018	Master Servicer
WFCM 2018-C45	Pooling and Servicing Agreement	7/1/2018	Master Servicer
WFCM 2018-C46	Pooling and Servicing Agreement	8/1/2018	Master Servicer
WFCM 2018-C47	Pooling and Servicing Agreement	10/1/2018	Master Servicer
WFCM 2018-C48	Pooling and Servicing Agreement	12/1/2018	Master Servicer
WFCM 2019-C49	Pooling and Servicing Agreement	3/1/2019	Master Servicer
WFCM 2019-C50	Pooling and Servicing Agreement	5/1/2019	Master Servicer
WFCM 2019-C51	Pooling and Servicing Agreement	7/1/2019	Master Servicer
WFCM 2019-C52	Pooling and Servicing Agreement	8/1/2019	Master Servicer
WFCM 2019-C53	Pooling and Servicing Agreement	11/1/2019	Master Servicer
WFCM 2019-C54	Pooling and Servicing Agreement	12/1/2019	Master Servicer
WFCM 2019-JWDR	Trust and Servicing Agreement	10/8/2019	Servicer
WFCM 2020-C55	Pooling and Servicing Agreement	2/1/2020	Master Servicer
WFCM 2020-C56	Pooling and Servicing Agreement	6/1/2020	Master Servicer
WFCM 2020-C57	Pooling and Servicing Agreement	8/1/2020	Master Servicer
WFCM 2020-C58	Pooling and Servicing Agreement	12/1/2020	Master Servicer
WFCM 2021-C59	Pooling and Servicing Agreement	5/1/2021	Master Servicer
WFCM 2021-C60	Pooling and Servicing Agreement	7/1/2021	Master Servicer
WFCM 2021-C61	Pooling and Servicing Agreement	12/1/2021	Master Servicer
WFCM 2021-FCMT	Trust and Servicing Agreement	5/14/2021	Servicer
WFCM 2021-SAVE	Trust and Servicing Agreement	2/17/2021	Servicer
WFCM12LCS	Pooling and Servicing Agreement	12/1/2016	General Master Servicer
WFLD 2014-MONT	Trust and Servicing Agreement	8/1/2014	Master Servicer
WFRBS 2011-C2	Pooling and Servicing Agreement	3/1/2011	Master Servicer
WFRBS 2011-C3	Pooling and Servicing Agreement	10/1/2011	Master Servicer
WFRBS 2011-C4	Pooling and Servicing Agreement	8/1/2011	Master Servicer
WFRBS 2011-C5	Pooling and Servicing Agreement	11/1/2011	Master Servicer
WFRBS 2012 C6	Pooling and Servicing Agreement	4/1/2012	Master Servicer
WFRBS 2012 C7	Pooling and Servicing Agreement	6/1/2012	Master Servicer
WFRBS 2012-C10	Pooling and Servicing Agreement	12/1/2012	Master Servicer
WFRBS 2012-C8	Pooling and Servicing Agreement	8/1/2012	Master Servicer
WFRBS 2012-C9	Pooling and Servicing Agreement	10/1/2012	Master Servicer
WFRBS 2013-C11	Pooling and Servicing Agreement	2/1/2013	Master Servicer
WFRBS 2013-C12	Pooling and Servicing Agreement	3/1/2013	Master Servicer
WFRBS 2013-C13	Pooling and Servicing Agreement	5/1/2013	General Master Servicer
WFRBS 2013-C14	Pooling and Servicing Agreement	6/1/2013	Master Servicer
WFRBS 2013-C15	Pooling and Servicing Agreement	8/1/2013	General Master Servicer
WFRBS 2013-C16	Pooling and Servicing Agreement	9/1/2013	General Master Servicer
WFRBS 2013-C17	Pooling and Servicing Agreement	12/1/2013	Master Servicer
WFRBS 2013-C18	Pooling and Servicing Agreement	12/1/2013	General Master Servicer
WFRBS 2013-UBS1	Pooling and Servicing Agreement	12/1/2013	Master Servicer
WFRBS 2014-C19	Pooling and Servicing Agreement	3/1/2014	General Master Servicer
WFRBS 2014-C20	Pooling and Servicing Agreement	5/1/2014	General Master Servicer
WFRBS 2014-C21	Pooling and Servicing Agreement	8/1/2014	General Master Servicer
WFRBS 2014-C22	Pooling and Servicing Agreement	9/1/2014	General Master Servicer
WFRBS 2014-C23	Pooling and Servicing Agreement	9/1/2014	Master Servicer
WFRBS 2014-C24	Pooling and Servicing Agreement	11/1/2014	Master Servicer
WFRBS 2014-C25	Pooling and Servicing Agreement	12/1/2014	Master
WFRBS 2014-LC14	Pooling and Servicing Agreement	2/1/2014	Master Servicer
WTOWN 2017-KNOX	Trust and Servicing Agreement	7/1/2017	Servicer/Special Servicer
WWPT 2017-WWP	Trust and Servicing Agreement	11/10/2017	Servicer

7 World Trade Center	Servicing Agreement	3/15/2022	Master Servicer
BANK 2022-BNK39	Pooling and Servicing Agreement	2/1/2022	General Master Servicer
BANK 2022-BNK40	Pooling and Servicing Agreement	3/1/2022	General Master Servicer
BANK 2022-BNK41	Pooling and Servicing Agreement	5/1/2022	General Master Servicer
BANK 2022-BNK42	Pooling and Servicing Agreement	6/1/2022	General Master Servicer
BANK 2022-BNK43	Pooling and Servicing Agreement	8/1/2023	General Master Servicer
BANK 2022-BNK44	Pooling and Servicing Agreement	11/1/2022	General Master Servicer
BDS 2022-FL11	Servicing Agreement	4/14/2022	Servicer/Special Servicer
BDS 2022-FL12	Servicing Agreement	9/22/2022	Servicer/Special Servicer
BPR 2022-OANA	Trust and Servicing Agreement	4/19/2022	Servicer
BPR 2022-STAR	Trust and Servicing Agreement	8/18/2022	Servicer
BX 2022-AHP	Trust and Servicing Agreement	2/15/2022	Servicer
BX 2022-CSMO	Trust and Servicing Agreement	6/9/2022	Servicer/Special Servicer
BX 2022-GPA	Trust and Servicing Agreement	9/29/2022	Servicer
CXP 2022-CXP1 (Special only)	Trust and Servicing Agreement	9/20/2022	Special Servicer
Fort CRE 2022-FL3	Servicing Agreement	2/24/2022	Master Servicer
FREMF 2022-K139	Sub-Servicing Agreement	3/1/2022	Primary Servicer
FREMF 2022-K140	Sub-Servicing Agreement	3/1/2022	Primary Servicer
FREMF 2022-K141	Sub-Servicing Agreement	4/1/2022	Primary Servicer
FREMF 2022-K142	Sub-Servicing Agreement	4/1/2022	Primary Servicer
FREMF 2022-K143	Sub-Servicing Agreement	4/1/2022	Primary Servicer
FREMF 2022-K146	Sub-Servicing Agreement	6/1/2022	Primary Servicer
FREMF 2022-K148	Sub-Servicing Agreement	8/1/2022	Primary Servicer
FREMF 2022-K149	Sub-Servicing Agreement	9/1/2022	Primary Servicer
FREMF 2022-K150	Sub-Servicing Agreement	10/1/2022	Primary Servicer
FREMF 2022-K151	Sub-Servicing Agreement	11/1/2022	Primary Servicer
FREMF 2022-K152	Sub-Servicing Agreement	12/1/2022	Primary Servicer
FREMF 2022-K747	Sub-Servicing Agreement	1/1/2022	Primary Servicer
FREMF 2022-K748	Sub-Servicing Agreement	3/1/2022	Primary Servicer
FREMF 2022-K749	Sub-Servicing Agreement	5/1/2022	Primary Servicer
FREMF 2022-K750	Pooling and Servicing Agreement	11/1/2022	Master Servicer
FREMF 2022-KF128	Pooling and Servicing Agreement	1/1/2022	Master Servicer/Special Servicer
FREMF 2022-KF130	Pooling and Servicing Agreement	2/1/2022	Master Servicer/Special Servicer
FREMF 2022-KF131	Pooling and Servicing Agreement	2/1/2022	Master Servicer
FREMF 2022-KF132	Pooling and Servicing Agreement	3/1/2022	Master Servicer
FREMF 2022-KF133	Sub-Servicing Agreement	3/1/2022	Primary Servicer
FREMF 2022-KF134	Pooling and Servicing Agreement	4/1/2022	Master Servicer
FREMF 2022-KF135	Pooling and Servicing Agreement	5/1/2022	Master Servicer
FREMF 2022-KF136	Sub-Servicing Agreement	5/1/2022	Primary Servicer
FREMF 2022-KF137	Pooling and Servicing Agreement	6/1/2022	Master Servicer
FREMF 2022-KF138	Pooling and Servicing Agreement	6/1/2022	Master Servicer/Special Servicer
FREMF 2022-KF140	Pooling and Servicing Agreement	7/1/2022	Master Servicer
FREMF 2022-KF141	Pooling and Servicing Agreement	8/1/2022	Master Servicer/Special Servicer
FREMF 2022-KF142	Pooling and Servicing Agreement	9/1/2022	Master Servicer
FREMF 2022-KF143	Pooling and Servicing Agreement	9/1/2022	Master Servicer
FREMF 2022-KF145	Pooling and Servicing Agreement	11/1/2022	Master Servicer
FREMF 2022-KF146	Pooling and Servicing Agreement	11/1/2022	Master Servicer
FREMF 2022-KF147	Sub-Servicing Agreement	12/1/2022	Primary Servicer
FREMF 2022-KF148	Pooling and Servicing Agreement	12/1/2022	Master Servicer
FREMF 2022-KH09	Pooling and Servicing Agreement	9/1/2022	Special Servicer
FREMF 2022-KJ37	Sub-Servicing Agreement	2/1/2022	Primary Servicer
FREMF 2022-KJ38	Pooling and Servicing Agreement	3/1/2022	Primary Servicer/Backup Special Servicer
FREMF 2022-KJ39	Sub-Servicing Agreement	4/1/2022	Primary Servicer
FREMF 2022-KJ40	Sub-Servicing Agreement	7/1/2022	Primary Servicer
FREMF 2022-KJ41	Pooling and Servicing Agreement	8/1/2022	Primary Special Servicer
FREMF 2022-KJ42	Sub-Servicing Agreement	9/1/2022	Primary Servicer
FREMF 2022-KJ43	Sub-Servicing Agreement	12/1/2022	Primary Servicer
FREMF 2022-KSG3	Sub-Servicing Agreement	5/1/2022	Primary Servicer
FREMF 2022-KSG4	Sub-Servicing Agreement	9/1/2022	Primary Servicer
FRETE 2022-ML14	Pooling and Servicing Agreement	12/1/2022	Primary Special Servicer
FS Rialto 2022-FL4	Servicing Agreement	3/31/2022	Servicer
FS Rialto 2022-FL5	Servicing Agreement	6/16/2022	Servicer
FS Rialto 2022-FL6	Servicing Agreement	8/25/2022	Servicer
FS Rialto 2022-FL7	Servicing Agreement	12/7/2022	Servicer
INTOWN 2022-STAY	Trust and Servicing Agreement	8/15/2022	Master Servicer
Potomac Tower 2022-1	Servicing Agreement	4/4/2022	Servicer
RIAL 2022-FL8	Servicing Agreement	5/20/2022	Servicer
SPGN 2022-TFLM	Trust and Servicing Agreement	2/25/2022	Master Servicer
STWD 2022-FL3	Servicing Agreement	2/1/2022	Servicer
TCO 2022-DPM	Trust and Servicing Agreement	5/16/2022	Servicer
WFCM 2022-C62	Pooling and Servicing Agreement	4/1/2022	Master Servicer
WFCM 2022-JS2	Trust and Servicing Agreement	1/27/2022	Servicer
WFCM 2022-ONL	Trust and Servicing Agreement	3/9/2022	Servicer
WMRK 2022-WMRK	Trust and Servicing Agreement	11/9/2022	Servicer
BANK 2023-BNK45	Pooling and Servicing Agreement	2/1/2023	Master Servicer
BANK 2023-5YR1	Pooling and Servicing Agreement	4/1/2023	Master Servicer
MSWF 2023-1	Pooling and Servicing Agreement	5/1/2023	Master Servicer
BANK 2023-5YR2	Pooling and Servicing Agreement	7/1/2023	Master Servicer
BANK 2023-BNK46	Pooling and Servicing Agreement	8/1/2023	General Master Servicer

BANK5 2023-5YR3	Pooling and Servicing Agreement	9/1/2023	Master Servicer
BANK5 2023-5YR4	Pooling and Servicing Agreement	12/1/2023	Master Servicer
MSWF 2023-2	Pooling and Servicing Agreement	12/1/2023	Master Servicer
BGL Pinchurst 2023-1	Servicing Agreement	2/3/2023	Servicer
BLP 2023-IND	Trust and Servicing Agreement	2/28/2023	Servicer
PGA 2023-RSRT	Trust and Servicing Agreement	4/21/2023	Servicer
COAST 2023-2HTL	Trust and Servicing Agreement	7/25/2023	Servicer
SCG 2023-NASH	Trust and Servicing Agreement	11/29/2023	Servicer
BPR 2023-STON	Trust and Servicing Agreement	12/18/2023	Master Servicer
KSL 2023-HT	Trust and Servicing Agreement	12/20/2023	Servicer
DTP 2023-STE2	Trust and Servicing Agreement	12/28/2023	Servicer
FREMF 2023-K153 (Primary & Special)	Pooling and Servicing Agreement	1/1/2023	Primary and Special
FREMF 2023-K154 (Primary Only)	Subservicing Agreement	3/1/2023	Primary Servicer
FREMF 2023-K155 (Primary)	Subservicing Agreement	4/1/2023	Primary Servicer
FREMF 2023-KF149	Pooling and Servicing Agreement	1/1/2023	Master Servicer
FREMF 2023-KF151	Pooling and Servicing Agreement	2/1/2023	Master Servicer
FREMF 2023-KF144 (Primary Only)	Subservicing Agreement	2/1/2023	Primary Servicer
FREMF 2023-KF152 (Primary Only)	Subservicing Agreement	3/1/2023	Primary Servicer
FREMF 2023-KF153	Pooling and Servicing Agreement	4/1/2023	Master Servicer
FREMF 2023-KF154	Pooling and Servicing Agreement	4/1/2023	Master Servicer
FREMF 2023-K751	Pooling and Servicing Agreement	5/1/2023	Master Servicer
FREMF 2023-KF155	Pooling and Servicing Agreement	5/1/2023	Master Servicer
FREMF 2023-KG08	Pooling and Servicing Agreement	7/1/2023	Master Servicer
FREMF 2023-KF158 (Primary & Special)	Pooling and Servicing Agreement	7/1/2023	Primary and Special
FREMF 2023-K158 (Primary)	Subservicing Agreement	8/1/2023	Primary Servicer
FREMF 2023-KF159 (Primary)	Subservicing Agreement	8/1/2023	Primary Servicer
FREMF 2023-K159 (Special Only)	Pooling and Servicing Agreement	9/1/2023	Special Servicer
FREMF 2023-KJ47 (Primary & Backup Special)	Pooling and Servicing Agreement	9/1/2023	Backup Special Servicer/Primary Servicer
FRETE 2023-ML17 (Primary Only)	Subservicing Agreement	9/1/2023	Primary Servicer
FREMF 2023-K507 (Primary Only)	Subservicing Agreement	9/1/2023	Primary Servicer
FREMF 2023-K752	Pooling and Servicing Agreement	8/1/2023	Master Servicer
FREMF 2023-K508	Pooling and Servicing Agreement	10/1/2023	Master Servicer
FREMF 2023-K160	Pooling and Servicing Agreement	10/1/2023	Master Servicer
FREMF 2023-KS15 (Special Only)	Pooling and Servicing Agreement	10/1/2023	Special Servicer
FREMF 2023-K509 (Primary Only)	Subservicing Agreement	10/1/2023	Primary Servicer
FREMF 2023-K510 (Primary Only)	Subservicing Agreement	11/1/2023	Primary Servicer
FREMF 2023-KJ48 (Primary Only)	Subservicing Agreement	12/1/2023	Primary Servicer
FREMF 2023-K511	Pooling and Servicing Agreement	12/1/2023	Master Servicer
FREMF 2023-KF160	Pooling and Servicing Agreement	12/1/2023	Master Servicer
FREMF 2023-KF161	Pooling and Servicing Agreement	12/1/2023	Master Servicer
FRETE 2023-ML20 (Primary Only)	Subservicing Agreement	12/1/2023	Primary Servicer
Benchmark 2023-V2	Subservicing Agreement	5/1/2023	Subservicer
BANK 2024-5YR5	Pooling and Servicing Agreement	2/1/2024	Master Servicer
BMO 2024-5C3	Pooling and Servicing Agreement	5/1/2024	Master Servicer
BMO 2024-C8	Pooling and Servicing Agreement	3/1/2024	Master Servicer
BANK5 2024-5YR6	Pooling and Servicing Agreement	5/1/2024	Master Servicer
BBCMS 2024-C26	Pooling and Servicing Agreement	5/1/2024	Master Servicer
BANK5 2024-5YR7	Pooling and Servicing Agreement	6/1/2024	Master Servicer
BANK 2024-BNK47	Pooling and Servicing Agreement	6/1/2024	Master Servicer
BBCMS 2024-5C27	Pooling and Servicing Agreement	7/1/2024	Master Servicer
BMARK 2024-V8	Pooling and Servicing Agreement	7/1/2024	Master Servicer
WFCM 2024-5C1	Pooling and Servicing Agreement	7/1/2024	Master Servicer
BANK5 2024-5YR8	Pooling and Servicing Agreement	8/1/2024	Master Servicer
WFCM 2024-C63	Pooling and Servicing Agreement	8/1/2024	Master Servicer
BBCMS 2024-C28	Pooling and Servicing Agreement	8/1/2024	Master Servicer
BANK5 2024-5YR9	Pooling and Servicing Agreement	8/1/2024	Master Servicer
MSC 2024-NSTB	Pooling and Servicing Agreement	9/27/2024	Master Servicer
BANK 2024-BNK48	Pooling and Servicing Agreement	10/1/2024	Master Servicer
BANK5 2024-5YR10	Pooling and Servicing Agreement	10/1/2024	Master Servicer
BANK5 2024-5YR11	Pooling and Servicing Agreement	11/1/2024	Master Servicer
WFCM 2024-5C2	Pooling and Servicing Agreement	11/1/2024	Master Servicer
BANK5 2024-5YR12	Pooling and Servicing Agreement	12/1/2024	Master Servicer
BMO 2024-5C8	Pooling and Servicing Agreement	12/1/2024	Master Servicer
BMARK 2024-V12	Pooling and Servicing Agreement	12/1/2024	Master Servicer
BBCMS 2024-5C25	Sub-Servicing Agreement	3/1/2024	Primary Servicer
BX 2024-MF	Trust and Servicing Agreement	2/15/2024	Servicer
BX 2024-PAT	Trust and Servicing Agreement	3/19/2024	Servicer/Special Servicer
WB 2024-HQ	Trust and Servicing Agreement	3/21/2024	Servicer
SCG 2024-MSP	Trust and Servicing Agreement	4/15/2024	Master Servicer
DBWF 2024-LCRS	Trust and Servicing Agreement	4/24/2024	Master Servicer
MED 2024-MOB	Trust and Servicing Agreement	5/9/2024	Servicer
SDR 2024-DSNY	Trust and Servicing Agreement	5/15/2024	Servicer
HILT 2024-ORL	Trust and Servicing Agreement	5/23/2024	Servicer
ELM 2024-ELM	Trust and Servicing Agreement	6/6/2024	Servicer
TX TRUST 2024-HOU	Trust and Servicing Agreement	6/14/2024	Servicer
MCR 2024-TWA	Trust and Servicing Agreement	6/20/2024	Servicer
WFCM 2024-SVEN	Trust and Servicing Agreement	6/20/2024	Servicer
JW 2024-MRCO	Trust and Servicing Agreement	6/21/2024	Servicer
WFCM 2024-ICHI	Trust and Servicing Agreement	6/25/2024	Servicer
CAL1 2024-SUN	Trust and Servicing Agreement	7/9/2024	Servicer
WFCM 2024-BPRC	Trust and Servicing Agreement	7/15/2024	Servicer
ONNI 2024-APT	Trust and Servicing Agreement	7/18/2024	Servicer

WFCM 2024-MGP	Trust and Servicing Agreement	8/15/2024	Servicer
BX 2024-AIRC	Trust and Servicing Agreement	8/15/2024	Servicer
HYT 2024-RGCV	Trust and Servicing Agreement	8/29/2024	Servicer
LOEWS 2024-MIA	Trust and Servicing Agreement	9/10/2024	Servicer
BX 2024-ARB2	Trust and Servicing Agreement	9/26/2024	Servicer
LV 2024-SHOW	Trust and Servicing Agreement	10/18/2024	Servicer
AHPT 2024-ATRM	Trust and Servicing Agreement	10/23/2024	Servicer
WFCM 2024-GRP	Trust and Servicing Agreement	10/30/2024	Servicer
ROCK 2024-CNTR	Trust and Servicing Agreement	10/30/2024	Servicer
BFLD 2024-UNIV	Trust and Servicing Agreement	11/5/2024	Servicer
BPR 2024-PMDW	Trust and Servicing Agreement	11/1/2024	Servicer
ICNQ 2024-MF	Trust and Servicing Agreement	11/13/2024	Master Servicer
BPR 2024-PARK	Trust and Servicing Agreement	11/15/2024	Servicer
BAMLL 2024-SSPR	Servicing Agreement	12/6/2024	Master Servicer/Special Servicer
BAHA 2024-MAR	Trust and Servicing Agreement	12/5/2024	Servicer
KSL 2024-HT2	Trust and Servicing Agreement	12/17/2024	Servicer
TCO 2024-DPM	Trust and Servicing Agreement	12/18/2024	Servicer
BDS 2024-FL13	Servicing Agreement	9/26/2024	Servicer/Special Servicer
FREMF 2024-K162	Subservicing Agreement	2/1/2024	Primary Servicer
FREMF 2024-KF162	Subservicing Agreement	3/1/2024	Primary Servicer
FREMF 2024-K527	Subservicing Agreement	8/1/2024	Primary Servicer
FREMF 2024-K757	Subservicing Agreement	10/1/2024	Primary Servicer
FREMF 2024-K167	Subservicing Agreement	12/1/2024	Primary Servicer
FREMF 2024-K530	Subservicing Agreement	11/1/2024	Primary Servicer
FREMF 2024-K349	Subservicing Agreement	2/1/2024	Primary Servicer
Freddie Mac 2024-Q026	Subservicing Agreement	7/1/2024	Special Servicer on Bridge Loan/Harbor Loan, Primary Servicer
FREMF 2024-K166	Subservicing Agreement	11/1/2024	Primary Servicer
FREMF 2024-K526	Subservicing Agreement	8/1/2024	Primary Servicer
FREMF 2024-K350	Subservicing Agreement	7/1/2024	Primary Servicer
FREMF 2024K351	Subservicing Agreement	10/1/2024	Primary Servicer
FREMF 2024-K352	Pooling and Servicing Agreement	12/1/2024	Special Servicer
FREMF 2024-K531	Subservicing Agreement	12/1/2024	Primary Servicer
FRETE 2024-ML27	Subservicing Agreement	12/1/2024	Primary Servicer
FREMF 2024-K515	Subservicing Agreement	2/1/2024	Primary Servicer
FREMF 2024-K518	Subservicing Agreement	3/1/2024	Primary Servicer
FREMF 2024-K163	Subservicing Agreement	5/1/2024	Primary Servicer
FREMF 2024-K164	Subservicing Agreement	7/1/2024	Primary Servicer
FREMF 2024-K165	Subservicing Agreement	11/1/2024	Primary Servicer
FREMF 2024-K529	Subservicing Agreement	10/1/2024	Primary Servicer
FREMF 2024-K513	Pooling and Servicing Agreement	1/1/2024	Master Servicer
FREMF 2024-K517	Pooling and Servicing Agreement	3/1/2024	Master Servicer
FREMF 2024-K519	Pooling and Servicing Agreement	4/1/2024	Master Servicer
FREMF 2024-K521	Pooling and Servicing Agreement	5/1/2024	Master Servicer
FREMF 2024-KF163	Pooling and Servicing Agreement	7/1/2024	Master Servicer
FREMF 2024-KF164	Pooling and Servicing Agreement	12/1/2024	Master Servicer
WFCM 2025-5C3	Pooling and Servicing Agreement	1/1/2025	Master Servicer
BANK5 2025-5VR13	Pooling and Servicing Agreement	2/1/2025	Master Servicer
WFCM 2025-C64	Pooling and Servicing Agreement	2/1/2025	Master Servicer
HY 2025-SPRL	Trust and Servicing Agreement	1/24/2025	Servicer
NY 2025-299P	Trust and Servicing Agreement	2/13/2025	Servicer
IRV 2025-200P	Trust and Servicing Agreement	2/26/2025	Servicer
NYC 2025-3BP	Trust and Servicing Agreement	2/27/2025	Servicer
FS RIAL 2025-FL10	Servicing Agreement	2/19/2025	Servicer

ANNUAL STATEMENT OF COMPLIANCE

Per the applicable Servicing Agreement for each of the transactions listed on Schedule I hereto, the undersigned, a duly authorized officer of Trimont LLC in its applicable capacity(ies) as listed on Schedule I ("Trimont"), hereby certifies as follows as of and for the period commencing on March 1, 2025 and ending December 31, 2025 (the "Reporting Period"):

1. A review of Trimont's activities during the Reporting Period and of its performance under the applicable Servicing Agreement has been made under such officer's supervision; and
2. To the best of such officer's knowledge, based on such review, Trimont has fulfilled all of its obligations under the applicable Servicing Agreement in all material respects throughout the Reporting Period.

IN WITNESS WHEREOF, the undersigned has executed this Certificate as of the 1st day of March 2026.

/s/ Sean D Reilly

Sean D Reilly
Authorized Signatory
Trimont LLC

SCHEDULE I			
Transaction	Servicing Agreement	Servicing Agreement Date	Trimont Capacity(ies)
BANK 2018-BNK15	Pooling and Servicing Agreement	11/1/2018	General Master Servicer
111Mass-2Penn 2006	Pooling and Servicing Agreement	8/18/2006	Master Servicer
1211 Avenue of the Americas	Trust and Servicing Agreement	8/27/2015	Servicer/Special Servicer
20 Times Square Trust 2018-20TS	Trust and Servicing Agreement	5/23/2018	Servicer/Special Servicer
225 Liberty Trust 2016-225L	Trust and Servicing Agreement	2/6/2016	Servicer
245 Park Ave Trust 2017- 245P	Trust and Servicing Agreement	5/30/2017	Servicer
280 Park Ave 2017-280P	Trust and Servicing Agreement	9/28/2017	Master/Special Servicer
ACAM 2019-FL1	Servicing Agreement	12/7/2019	Servicer
ACCORMEZZ	Servicing Agreement	6/1/2017	Servicer
ACM 2016-1	Pooling and Servicing Agreement	5/1/2016	Master/Special Servicer
ACORE CREDIT IV REIT (WF) SPV LC	Servicing Agreement	11/16/2018	Servicer
ACRE 2014-FL2	Servicing Agreement	8/15/2014	Servicer
ACRE 2017-FL3	Servicing Agreement	3/2/2017	Servicer
ACRE 2021-FL4	Servicing Agreement	1/28/2021	Servicer
AHHT 2019-FAIR	Trust and Servicing Agreement	10/15/2019	Servicer
AHPT 2017-ATRM	Trust and Servicing Agreement	12/29/2017	Servicer/Special Servicer
AHPT 2018-ATRM	Trust and Servicing Agreement	6/19/2019	Servicer/Special Servicer
AHT 2018-ASHF	Trust and Servicing Agreement	5/15/2018	Servicer/Special Servicer
AHT 2018-KEYS	Pooling and Servicing Agreement	7/16/2018	Master Servicer
ALEN 2021-ACEN	Trust and Servicing Agreement	3/24/2021	Servicer
Americold 2010-ART	Trust and Servicing Agreement	12/15/2010	Master/Special Servicer
AOA 2015-1177	Trust and Servicing Agreement	1/9/2015	Master/Special Servicer
AOA 2021-1177	Trust and Servicing Agreement	11/4/2021	Master Servicer
ARCHETYPE	Servicing Agreement	1/20/2011	Servicer
AREIT 2018-CLO	Servicing Agreement	2/28/2018	Servicer
AREIT 2018-CRE1 (CLO)	Servicing Agreement	2/28/2018	Servicer
AREIT 2018-CRE2	Servicing Agreement	11/15/2018	Servicer
AREIT 2019-CRE3	Servicing Agreement	8/29/2019	Servicer
AREIT 2020-CRE4	Servicing Agreement	5/21/2020	Servicer
Aventura Mall 2018-AVM	Trust and Servicing Agreement	6/29/2018	Servicer
BACM 2016-UBS10	Pooling and Servicing Agreement	6/1/2016	Master Servicer
BACM 2017-BNK3	Pooling and Servicing Agreement	2/1/2017	Master Servicer
BAML 2014-520M	Trust and Servicing Agreement	8/19/2014	Master Servicer/Special Servicer
BAMLL 2014-FL1	Pooling and Servicing Agreement	12/18/2014	Master/Special Servicer
BAMLL 2015-200P	Trust and Servicing Agreement	4/23/2015	Master Servicer
BAMLL 2015-ASTR	Trust and Servicing Agreement	8/18/2015	Servicer
BAMLL 2016-ISQR	Pooling and Servicing Agreement	8/17/2016	Master Servicer
BAMLL 2016-SS1	Trust and Servicing Agreement	2/17/2016	Servicer
BAMLL 2017-SCH	Trust and Servicing Agreement	12/15/2017	Servicer
BAMLL 2018-DSNY	Trust and Servicing Agreement	11/6/2018	Servicer/Special Servicer
BAMLL 2020-BOC	Trust and Servicing Agreement	2/27/2020	Servicer/Special Servicer
BAMLL 2021-JACX	Trust and Servicing Agreement	9/15/2021	Servicer
Bancorp 2016-CRE1	Pooling and Servicing Agreement	12/6/2016	Master Servicer
BANCORP 2017-CRE2	Pooling and Servicing Agreement	8/30/2017	Master Servicer
Bancorp 2018-CRE3	Pooling and Servicing Agreement	3/29/2018	Master Servicer
Bancorp 2018-CRE4	Pooling and Servicing Agreement	9/27/2018	Master Servicer
BANCORPWH	Servicing Agreement	9/7/2012	Servicer
BANK 2017-BNK4	Pooling and Servicing Agreement	4/1/2017	Master Servicer
BANK 2017-BNK5	Pooling and Servicing Agreement	6/1/2017	Master Servicer
BANK 2017-BNK6	Pooling and Servicing Agreement	7/1/2017	General Master Servicer
BANK 2017-BNK7	Pooling and Servicing Agreement	9/1/2017	Master Servicer
BANK 2017-BNK8	Pooling and Servicing Agreement	11/1/2017	Master Servicer
BANK 2017-BNK9	Pooling and Servicing Agreement	12/1/2017	Master Servicer
BANK 2018-BNK10	Pooling and Servicing Agreement	2/1/2018	General Master Servicer
BANK 2018-BNK11	Pooling and Servicing Agreement	4/1/2018	General Master Servicer
BANK 2018-BNK12	Pooling and Servicing Agreement	5/1/2018	General Master Servicer
BANK 2018-BNK13	Pooling and Servicing Agreement	8/1/2018	General Master Servicer
BANK 2018-BNK14	Pooling and Servicing Agreement	9/1/2018	General Master Servicer
BANK 2019-BNK16	Pooling and Servicing Agreement	2/1/2019	General Master Servicer
BANK 2019-BNK17	Pooling and Servicing Agreement	4/1/2019	Master Servicer
BANK 2019-BNK18	Pooling and Servicing Agreement	5/1/2019	General Master Servicer
BANK 2019-BNK19	Pooling and Servicing Agreement	8/1/2019	General Master Servicer
BANK 2019-BNK20	Pooling and Servicing Agreement	9/1/2019	General Master Servicer
BANK 2019-BNK21	Pooling and Servicing Agreement	10/1/2019	Master Servicer

BANK 2019-BNK22	Pooling and Servicing Agreement	11/1/2019	General Master Servicer
BANK 2019-BNK23	Pooling and Servicing Agreement	12/1/2019	Master Servicer
BANK 2019-BNK24	Pooling and Servicing Agreement	12/1/2019	General Master Servicer
BANK 2020-BNK25	Pooling and Servicing Agreement	2/1/2020	General Master Servicer
BANK 2020-BNK26	Pooling and Servicing Agreement	3/1/2020	General Master Servicer
BANK 2020-BNK27	Pooling and Servicing Agreement	6/1/2020	Master Servicer
BANK 2020-BNK28	Pooling and Servicing Agreement	9/1/2020	Master Servicer
BANK 2020-BNK29	Pooling and Servicing Agreement	11/1/2020	Master Servicer
BANK 2020-BNK30	Pooling and Servicing Agreement	12/1/2020	Master Servicer
BANK 2021-BNK31	Pooling and Servicing Agreement	2/1/2021	General Master Servicer
BANK 2021-BNK32	Pooling and Servicing Agreement	3/1/2021	General Master Servicer
BANK 2021-BNK33	Pooling and Servicing Agreement	5/1/2021	General Master Servicer
BANK 2021-BNK34	Pooling and Servicing Agreement	6/1/2021	General Master Servicer
BANK 2021-BNK35	Pooling and Servicing Agreement	8/1/2021	General Master Servicer
BANK 2021-BNK36	Pooling and Servicing Agreement	10/1/2021	General Master Servicer
BANK 2021-BNK37	Pooling and Servicing Agreement	11/1/2021	General Master Servicer
BANK 2021-BNK38	Pooling and Servicing Agreement	12/1/2021	General Master Servicer
BARCLAYSWH	Servicing Agreement	1/24/2012	Servicer
BB UBS 2012 SHOW	Trust and Servicing Agreement	11/1/2012	Servicer/Special Servicer
BB UBS 2012 TFT	Pooling and Servicing Agreement	12/1/2012	Servicer/Special Servicer
BBCMS 2015-SLP	Trust and Servicing Agreement	3/1/2015	Servicer
BBCMS 2015-SLP MZ A	Trust and Servicing Agreement	3/1/2015	First Mezz Servicer
BBCMS 2016-ETC	Trust and Servicing Agreement	8/1/2016	Master Servicer
BBCMS 2017-C1	Pooling and Servicing Agreement	2/1/2017	Master Servicer
BBCMS 2017-GLKS	Trust and Servicing Agreement	11/29/2017	Servicer
BBCMS 2018-C2	Pooling and Servicing Agreement	12/1/2018	Master Servicer
BBCMS 2018-CHRS	Trust and Servicing Agreement	8/9/2018	Servicer/Special Servicer
BBCMS 2018-RRJ	Trust and Servicing Agreement	2/27/2018	Servicer
BBCMS 2019-C4	Pooling and Servicing Agreement	8/1/2019	Master Servicer
BBCMS 2019-CLP	Trust and Servicing Agreement	2/27/2019	Servicer
BBCMS 2020-C7	Pooling and Servicing Agreement	6/1/2020	Master Servicer
BBCMS 2020-C8	Pooling and Servicing Agreement	10/1/2020	Special Servicer
BBCMS 2021-C11	Pooling and Servicing Agreement	9/1/2021	Master Servicer
BBCMS Trust 2013-TYSN	Trust and Servicing Agreement	8/1/2013	Servicer/Special Servicer
BBSG 2016-MRP	Trust and Servicing Agreement	6/1/2016	Servicer
BDS 2018-FL1 (CLO)	Servicing Agreement	2/27/2018	Servicer/Special Servicer
BDS 2018-FL2	Servicing Agreement	8/7/2018	Servicer/Special Servicer
BDS 2019-FL3	Servicing Agreement	2/8/2019	Servicer/Special Servicer
BDS 2019-FL4	Servicing Agreement	7/30/2019	Servicer/Special Servicer
BDS 2020-FL5	Servicing Agreement	1/24/2020	Servicer/Special Servicer
BDS 2020-FL6	Servicing Agreement	9/30/2020	Servicer/Special Servicer
BDS 2021-FL10	Servicing Agreement	12/2/2021	Servicer/Special Servicer
BDS 2021-FL7	Servicing Agreement	5/24/2021	Servicer/Special Servicer
BDS 2021-FL8	Servicing Agreement	8/5/2021	Servicer/Special Servicer
BDS 2021-FL9	Servicing Agreement	10/13/2021	Servicer/Special Servicer
Benchmark 2018-B1	Pooling and Servicing Agreement	1/1/2018	Master Servicer
Berkshire Mezz	Mezzanine Servicing Agreement	12/11/2020	Servicer
BHMS 2014-ATLS	Trust and Servicing Agreement	8/1/2014	Master/Special Servicer
BHMS 2018-ATLS	Trust and Servicing Agreement	7/9/2018	Servicer
BHR 2018-PRME	Trust and Servicing Agreement	6/6/2018	Servicer/Special Servicer
BLCP 2014-CLRN	Trust and Servicing Agreement	10/6/2014	Servicer
BMARK 2018-B4	Pooling and Servicing Agreement	7/1/2018	Master Servicer
BMARK 2018-B5	Pooling and Servicing Agreement	8/1/2018	Master Servicer
BMARK 2019-B9	Pooling and Servicing Agreement	2/1/2019	Master Servicer
BPR 2021-TY	Trust and Servicing Agreement	9/23/2021	Servicer
BROERMWH	Servicing Agreement	12/27/2012	Servicer
BSREP 2021-DC	Trust and Servicing Agreement	8/16/2021	Servicer
BWAY 2015-1740	Trust and Servicing Agreement	2/6/2015	Master Servicer
BX 2018-EXCL	Trust and Servicing Agreement	10/15/2018	Servicer
BX 2018-IND	Trust and Servicing Agreement	10/10/2018	Servicer
BX 2021-21M	Trust and Servicing Agreement	11/8/2021	Servicer
BX 2021-PAC	Trust and Servicing Agreement	11/2/2021	Master Servicer
BX 2021-VIEW	Trust and Servicing Agreement	6/15/2021	Servicer
BX 2021-VINO	Trust and Servicing Agreement	5/27/2021	Servicer
BX 2021-XL2	Trust and Servicing Agreement	10/9/2021	Servicer
BX Trust 2017-CQHP	Trust and Servicing Agreement	11/30/2017	Servicer
BXHPP 2021-FILM	Trust and Servicing Agreement	8/26/2021	Servicer
BXHTL 2015-JWRZ	Pooling and Servicing Agreement	6/30/2015	Master/Special Servicer
BXP 2017-CC	Trust and Servicing Agreement	8/9/2017	Servicer
BXP 2017-GM	Trust and Servicing Agreement	6/9/2017	Servicer
BXP 2021-401L	Trust and Servicing Agreement	12/29/2021	Servicer
CAMB 2019-LIFE	Trust and Servicing Agreement	1/9/2019	Servicer
CapSource 2006-A	Servicing Agreement	6/29/2011	Servicer
CCRE 2015-RUM	Trust and Servicing Agreement	7/28/2015	Master/Special Servicer
CD 2016-CD2	Pooling and Servicing Agreement	12/1/2016	Master Servicer
CD 2017-CD5	Pooling and Servicing Agreement	8/1/2017	Master Servicer
CD 2017-CD6	Pooling and Servicing Agreement	11/1/2017	Master Servicer
CFCRE 2016-C3	Pooling and Servicing Agreement	1/1/2016	Master Servicer
CFCRE 2016-C4	Pooling and Servicing Agreement	5/1/2016	Master Servicer

CFCRE 2016-C6	Pooling and Servicing Agreement	11/1/2016	Master Servicer
CFCRE 2017-C8	Pooling and Servicing Agreement	9/1/2017	Master Servicer
CGCMT 2012-GC8	Pooling and Servicing Agreement	9/1/2012	Master Servicer
CGCMT 2013-375P	Trust and Servicing Agreement	5/6/2013	Servicer/Special Servicer
CGCMT 2013-GC15	Pooling and Servicing Agreement	9/1/2013	Master Servicer
CGCMT 2013-GC17	Pooling and Servicing Agreement	12/1/2013	Master Servicer
CGCMT 2013-GCJ11	Pooling and Servicing Agreement	4/1/2013	Master Servicer
CGCMT 2014-GC19	Pooling and Servicing Agreement	3/1/2014	Master Servicer
CGCMT 2014-GC21	Pooling and Servicing Agreement	5/1/2014	Master Servicer
CGCMT 2014-GC25	Pooling and Servicing Agreement	10/1/2014	Master Servicer
CGCMT 2015-GC27	Pooling and Servicing Agreement	2/1/2015	Master Servicer
CGCMT 2015-GC31	Pooling and Servicing Agreement	7/1/2015	Master Servicer
CGCMT 2015-GC33	Pooling and Servicing Agreement	9/1/2015	Master Servicer
CGCMT 2015-P1	Pooling and Servicing Agreement	8/1/2015	Master Servicer
CGCMT 2016-C1	Pooling and Servicing Agreement	5/1/2016	Master Servicer
CGCMT 2016-GC36	Pooling and Servicing Agreement	2/1/2016	Special Servicer
CGCMT 2016-GC37	Pooling and Servicing Agreement	4/2/2016	Master Servicer
CGCMT 2016-P3	Pooling and Servicing Agreement	4/1/2016	Master Servicer
CGCMT 2016-P4	Pooling and Servicing Agreement	7/1/2016	Master Servicer
CGCMT 2017-B1	Pooling and Servicing Agreement	8/1/2017	Master Servicer
CGCMT 2017-MDDR	Trust and Servicing Agreement	7/6/2017	Servicer
CGCMT 2017-P7	Pooling and Servicing Agreement	4/1/2017	Master Servicer
CGCMT 2017-P8	Pooling and Servicing Agreement	9/1/2017	Master Servicer
CGCMT 2018-C6	Pooling and Servicing Agreement	12/1/2018	Master Servicer
CGCMT 2019-C7	Pooling and Servicing Agreement	12/1/2019	Master Servicer
CGCMT 2019-GC43	Pooling and Servicing Agreement	11/1/2019	Master Servicer
CGWF 2013-RKWH	Trust and Servicing Agreement	12/9/2013	Servicer
CHT 2017-COSMO	Trust and Servicing Agreement	12/15/2017	Master/Special Servicer
City Center Trust 2011-CCHP	Trust and Servicing Agreement	8/8/2011	Servicer/Special Servicer
CLMT 2016-CLNE	Trust and Servicing Agreement	11/18/2016	Master Servicer/Special Servicer
CLNS 2017-IKMZ	Trust and Servicing Agreement	5/30/2017	Servicer/Special Servicer
CLNS 2017-IKPR	Trust and Servicing Agreement	6/6/2017	Servicer
COLD 2017-ICE3	Trust and Servicing Agreement	4/28/2017	Servicer
Comm 2010-C1	Pooling and Servicing Agreement	11/1/2010	Master Servicer
COMM 2011-FL1	Pooling and Servicing Agreement	10/1/2011	Master Servicer
COMM 2012-CCRE1	Pooling and Servicing Agreement	5/1/2012	Master Servicer
COMM 2012-CCRE2	Pooling and Servicing Agreement	8/1/2012	Master Servicer
COMM 2012-CCRE3	Pooling and Servicing Agreement	10/1/2012	Master Servicer
COMM 2012-CCRE4	Pooling and Servicing Agreement	11/1/2012	Master Servicer
COMM 2012-FL2	Pooling and Servicing Agreement	11/1/2012	Master Servicer
COMM 2012-LC4	Pooling and Servicing Agreement	3/1/2012	Master Servicer
COMM 2013-CCRE10	Pooling and Servicing Agreement	8/1/2013	Master Servicer
COMM 2013-CCRE12	Pooling and Servicing Agreement	11/1/2013	Master Servicer
COMM 2013-CCRE13	Pooling and Servicing Agreement	12/1/2013	Master Servicer
COMM 2013-CCRE6	Pooling and Servicing Agreement	3/1/2013	Master Servicer
COMM 2013-WWP	Trust and Servicing Agreement	4/1/2013	Master/Special Servicer
COMM 2014-277P	Trust and Servicing Agreement	8/6/2014	Master Servicer
COMM 2014-CCRE14	Pooling and Servicing Agreement	1/1/2014	Master Servicer
COMM 2014-CCRE15	Subservicing Agreement	2/1/2014	Sub-Servicer
COMM 2014-CCRE20	Pooling and Servicing Agreement	10/1/2014	Master Servicer
COMM 2014-FL4	Pooling and Servicing Agreement	8/20/2014	Master Servicer
COMM 2014-FL5	Pooling and Servicing Agreement	12/2/2014	Master/General Special Servicer
COMM 2014-LC15	Pooling and Servicing Agreement	3/1/2014	Master Servicer
COMM 2014-LC17	Pooling and Servicing Agreement	9/1/2014	Master Servicer
COMM 2014-PAT	Trust and Servicing Agreement	9/1/2014	Master/Special Servicer
COMM 2014-UBS3	Pooling and Servicing Agreement	6/1/2014	Master Servicer
COMM 2014-UBS5	Pooling and Servicing Agreement	9/1/2014	Master Servicer
COMM 2015-3BP	Trust and Servicing Agreement	2/6/2015	Master/Special Servicer
COMM 2015-CCRE22	Pooling and Servicing Agreement	3/1/2015	Master Servicer
COMM 2015-CCRE23	Pooling and Servicing Agreement	5/1/2015	Sub-Servicer
COMM 2015-CCRE24	Pooling and Servicing Agreement	8/1/2015	Master Servicer
COMM 2015-CCRE25	Pooling and Servicing Agreement	8/1/2015	Master Servicer
COMM 2015-CCRE26	Pooling and Servicing Agreement	10/1/2015	Master Servicer
COMM 2015-LC23	Pooling and Servicing Agreement	11/1/2015	Master Servicer
COMM 2015-PC1	Pooling and Servicing Agreement	7/1/2015	Master Servicer
COMM 2016-787S	Trust and Servicing Agreement	3/1/2016	Master/Special Servicer
COMM 2016-CCRE28	Pooling and Servicing Agreement	2/1/2016	Master Servicer
COMM 2016-DC2	Pooling and Servicing Agreement	3/1/2016	Master Servicer
COMM 2017-DLTA	Trust and Servicing Agreement	10/3/2017	Master Servicer
COMM 2017-PANW	Trust and Servicing Agreement	10/1/2017	Master Servicer/Special Servicer
COMM 2018-HOME	Pooling and Servicing Agreement	6/1/2018	Master Servicer
COMM 2020-CX	Trust and Servicing Agreement	11/5/2020	Master Servicer
Community South 2007-1	Pooling and Servicing Agreement	8/22/2007	Successor Servicer
CORE 2015-CALW	Trust and Servicing Agreement	4/9/2015	Servicer/Special Servicer
CORE 2015-TEXW	Trust and Servicing Agreement	4/16/2015	Servicer/Special Servicer
CORE 2015-WEST	Trust and Servicing Agreement	4/16/2015	Servicer/Special Servicer
CORE 2019-CORE	Trust and Servicing Agreement	3/15/2019	Servicer
CPLV Trust 2017-VICI	Trust and Servicing Agreement	11/30/2017	Servicer

CPTS 2019-CPT	Trust and Servicing Agreement	11/9/2019	Master Servicer
CSAIL 2015-C2	Pooling and Servicing Agreement	5/1/2015	Master Servicer
CSAIL 2015-C4	Pooling and Servicing Agreement	11/1/2015	Master Servicer
CSAIL 2016-C7	Pooling and Servicing Agreement	11/1/2016	Master Servicer
CSAIL 2017-C8	Pooling and Servicing Agreement	6/1/2017	Master Servicer
CSAIL 2018-C14	Pooling and Servicing Agreement	11/1/2018	Master Servicer
CSAIL 2018-CX12	Pooling and Servicing Agreement	8/1/2018	Master Servicer
CSCMT 2007-C2	Pooling and Servicing Agreement	5/1/2007	Master Servicer
CSCMT 2007-C3	Pooling and Servicing Agreement	6/1/2007	Master Servicer
CSCMT 2007-C3	Pooling and Servicing Agreement	6/1/2007	Master Servicer
CSMC 2014-USA	Trust and Servicing Agreement	9/11/2014	Servicer
CSMC 2016-NXSR	Pooling and Servicing Agreement	12/1/2016	Master Servicer
CSMC 2017-CHOP	Trust and Servicing Agreement	6/28/2017	Servicer
CSMC 2017-TIME	Trust and Servicing Agreement	12/1/2017	Master/Special Servicer
CSMC 2018-SITE	Trust and Servicing Agreement	12/6/2018	Servicer
CSMC2017-PFHP	Trust and Servicing Agreement	12/19/2017	Servicer
CST 2017-SKY	Trust and Servicing Agreement	3/30/2017	Servicer/Special Servicer
CSWF 2018-TOP	Trust and Servicing Agreement	8/28/2018	Servicer
CWSF 2021-SOP2	Trust and Servicing Agreement	6/29/2021	Servicer
DBCW 2017-BBG	Trust and Servicing Agreement	6/29/2017	Master/Special Servicer
DBGS 2018-C1	Pooling and Servicing Agreement	10/1/2018	Master Servicer
DBJPM 2016-C1	Pooling and Servicing Agreement	11/1/2016	Master Servicer
DBJPM 2016-SFC	Trust and Servicing Agreement	8/1/2016	Master Servicer
DBUBS 2011-LC3	Pooling and Servicing Agreement	8/1/2011	Master Servicer
DBUBS 2011-LC3	Pooling and Servicing Agreement	8/1/2011	Special Servicer (Providence Place Mall)
DBUBS 2017-BRKB	Trust and Servicing Agreement	10/1/2017	Master Servicer
DBUSB 2011-LC1	Pooling and Servicing Agreement	2/1/2011	Master Servicer
DBWF 2015-LCM	Trust and Servicing Agreement	6/25/2019	Master Servicer
DBWF 2016-8ST	Trust and Servicing Agreement	12/6/2016	Master Servicer
DBWF 2018-AMXP	Trust and Servicing Agreement	5/1/2018	Master Servicer
DCOT 2019-MTC	Trust and Servicing Agreement	10/30/2018	Servicer
DOLP 2021-NYC	Trust and Servicing Agreement	4/20/2021	Servicer
Extended Stay America Trust 2010-ESH	Trust and Servicing Agreement	11/1/2010	Master/Special Servicer
First Key 2015-SFR1	Pooling and Servicing Agreement	4/1/2015	Master Servicer
FIVEMILE	Pooling and Servicing Agreement	10/24/2012	Servicer
Freddie Mac 2011-K15	Pooling and Servicing Agreement	11/1/2011	Master/Special Servicer
Freddie Mac 2011-K702	Pooling and Servicing Agreement	6/1/2011	Master Servicer
Freddie Mac 2011-K703	Pooling and Servicing Agreement	9/1/2011	Master Servicer
Freddie Mac 2012-K706	Pooling and Servicing Agreement	2/1/2012	Master Servicer
Freddie Mac 201-K12	Pooling and Servicing Agreement	4/1/2011	Special Servicer
Freddie Mac Comm 2010 K8	Pooling and Servicing Agreement	9/1/2010	Master Servicer
FREMF 2012-K18 (Special)	Pooling and Servicing Agreement	5/1/2012	Special Servicer
FREMF 2012-K23	Pooling and Servicing Agreement	12/1/2012	Master Servicer
FREMF 2012-K711	Pooling and Servicing Agreement	11/1/2012	Master/Special Servicer
FREMF 2013-K26	Pooling and Servicing Agreement	5/1/2013	Master Servicer
FREMF 2013-K27	Pooling and Servicing Agreement	5/1/2013	Special Servicer
FREMF 2013-K28	Pooling and Servicing Agreement	6/1/2013	Special Servicer
FREMF 2013-K29	Pooling and Servicing Agreement	7/1/2013	Master Servicer
FREMF 2013-K34	Pooling and Servicing Agreement	11/1/2013	Master/Special Servicer
FREMF 2013-K712	Pooling and Servicing Agreement	4/1/2013	Special Servicer
FREMF 2013-K501	Pooling and Servicing Agreement	5/1/2013	Special Servicer
FREMF 2014-K36	Pooling and Servicing Agreement	2/1/2014	Master Servicer/Special Servicer
FREMF 2014-K38	Pooling and Servicing Agreement	6/1/2014	Special Servicer
FREMF 2014-K40	Pooling and Servicing Agreement	11/1/2014	Master Servicer
FREMF 2014-K41	Pooling and Servicing Agreement	12/1/2014	Special Servicer
FREMF 2014-K716	Pooling and Servicing Agreement	9/1/2014	Master/Special Servicer
FREMF 2014-KF05	Pooling and Servicing Agreement	11/1/2014	Master Servicer
FREMF 2014-K502	Pooling and Servicing Agreement	5/1/2014	Master/Special Servicer
FREMF 2015-K42	Pooling and Servicing Agreement	1/1/2015	Master Servicer
FREMF 2015-K44	Pooling and Servicing Agreement	4/1/2015	Master Servicer
FREMF 2015-K45	Pooling and Servicing Agreement	5/1/2015	Special Servicer
FREMF 2015-K46	Pooling and Servicing Agreement	6/1/2015	Special Servicer
FREMF 2015-K47	Pooling and Servicing Agreement	7/1/2015	Master Servicer
FREMF 2015-K48	Pooling and Servicing Agreement	9/1/2015	Master Servicer
FREMF 2015-K51	Pooling and Servicing Agreement	12/1/2015	Master Servicer
FREMF 2015-K719	Pooling and Servicing Agreement	8/1/2015	Special Servicer
FREMF 2015-K721	Pooling and Servicing Agreement	12/1/2015	Master Servicer
FREMF 2015-KF11	Pooling and Servicing Agreement	11/1/2015	Master Servicer
FREMF 2015-K503	Pooling and Servicing Agreement	10/1/2015	Master Servicer
FREMF 2016-K53	Pooling and Servicing Agreement	3/1/2016	Master Servicer/Special Servicer
FREMF 2016-K55	Pooling and Servicing Agreement	6/1/2016	Master Servicer/Special Servicer
FREMF 2016-K57	Pooling and Servicing Agreement	9/1/2016	Master Servicer
FREMF 2016-K59	Pooling and Servicing Agreement	11/1/2016	Master Servicer
FREMF 2016-K60	Pooling and Servicing Agreement	12/1/2016	Master Servicer
FREMF 2016-KBAM	Pooling and Servicing Agreement	2/1/2016	Special Servicer
FREMF 2016-KBAM	Pooling and Servicing Agreement	2/1/2016	Special Servicer
FREMF 2016-KF14	Pooling and Servicing Agreement	3/1/2016	Master/Special Servicer
FREMF 2016-KF15	Pooling and Servicing Agreement	4/1/2016	Master Servicer
FREMF 2016-KF16	Pooling and Servicing Agreement	5/1/2016	Special Servicer

FREMF 2016-KF18	Pooling and Servicing Agreement	7/1/2016	Special Servicer
FREMF 2016-KF19	Pooling and Servicing Agreement	8/1/2016	Master Servicer
FREMF 2016-KF20	Pooling and Servicing Agreement	9/1/2016	Special Servicer
FREMF 2016-KIR1	Pooling and Servicing Agreement	5/1/2016	Master Servicer
FREMF 2016-KJ09	Pooling and Servicing Agreement	11/1/2016	Back Up Special Servicer
FREMF 2016-KW01	Pooling and Servicing Agreement	5/1/2016	Master/Special Servicer
FREMF 2016-KS06	Pooling and Servicing Agreement	10/1/2016	Master Servicer
FREMF 2016-KS07	Pooling and Servicing Agreement	10/1/2016	Master/Special Servicer
FREMF 2017-K61	Pooling and Servicing Agreement	12/1/2017	Master/Special Servicer
FREMF 2017-K64	Pooling and Servicing Agreement	5/1/2017	Master/Special Servicer
FREMF 2017-K65	Pooling and Servicing Agreement	7/1/2017	Master Servicer
FREMF 2017-K67	Pooling and Servicing Agreement	9/1/2017	Master Servicer
FREMF 2017-K68	Pooling and Servicing Agreement	10/1/2017	Special Servicer
FREMF 2017-K69	Pooling and Servicing Agreement	11/1/2017	Master Servicer
FREMF 2017-K725	Pooling and Servicing Agreement	4/1/2017	Special Servicer
FREMF 2017-K729	Pooling and Servicing Agreement	12/1/2017	Master Servicer
FREMF 2017-KBF1	Pooling and Servicing Agreement	8/1/2017	Master/Special Servicer
FREMF 2017-KF27	Pooling and Servicing Agreement	2/1/2017	Master/Special Servicer
FREMF 2017-KF28	Pooling and Servicing Agreement	3/1/2017	Master Servicer
FREMF 2017-KF36	Pooling and Servicing Agreement	10/7/2017	Master Servicer
FREMF 2017-KF37	Pooling and Servicing Agreement	10/1/2017	Master Servicer
FREMF 2017-KF40	Pooling and Servicing Agreement	12/1/2017	Master/Special Servicer
FREMF 2017-KGS1	Pooling and Servicing Agreement	12/1/2017	Master/Special Servicer
FREMF 2017-KL01	Pooling and Servicing Agreement	6/1/2017	Master/Special Servicer
FREMF 2017-KW02	Pooling and Servicing Agreement	3/1/2017	Master/Special Servicer
FREMF 2017-KS08	Pooling and Servicing Agreement	5/1/2017	Master Servicer
FREMF 2017-KSW3	Pooling and Servicing Agreement	8/1/2017	Special Servicer
FREMF 2018-K72	Pooling and Servicing Agreement	1/1/2018	Master Servicer
FREMF 2018-K76	Pooling and Servicing Agreement	5/1/2018	Special Servicer
FREMF 2018-K77	Pooling and Servicing Agreement	6/1/2018	Master Servicer
FREMF 2018-K78	Pooling and Servicing Agreement	7/1/2018	Master Servicer
FREMF 2018-K79	Pooling and Servicing Agreement	8/1/2018	Special Servicer
FREMF 2018-K81	Pooling and Servicing Agreement	10/1/2018	Master Servicer
FREMF 2018-K84	Pooling and Servicing Agreement	11/1/2018	Master/Special Servicer
FREMF 2018-K731	Pooling and Servicing Agreement	4/1/2018	Master Servicer
FREMF 2018-KBF2	Pooling and Servicing Agreement	12/1/2018	Master/Special Servicer
FREMF 2018-KBX1	Pooling and Servicing Agreement	3/1/2018	Master Servicer
FREMF 2018-KF42	Pooling and Servicing Agreement	2/1/2018	Master Servicer
FREMF 2018-KF43	Pooling and Servicing Agreement	3/1/2018	Master/Special Servicer
FREMF 2018-KF46	Pooling and Servicing Agreement	5/1/2018	Master Servicer
FREMF 2018-KF48	Pooling and Servicing Agreement	7/1/2018	Master Servicer
FREMF 2018-KF49	Pooling and Servicing Agreement	8/1/2018	Master/Special Servicer
FREMF 2018-KF50	Pooling and Servicing Agreement	9/1/2018	Master Servicer
FREMF 2018-KF52	Pooling and Servicing Agreement	10/1/2018	Master Servicer
FREMF 2018-KF53	Pooling and Servicing Agreement	11/1/2018	Special Servicer
FREMF 2018-KF55	Pooling and Servicing Agreement	12/1/2018	Master Servicer
FREMF 2018-KF56	Pooling and Servicing Agreement	12/1/2018	Master/Special Servicer
FREMF 2018-KHG1	Trust and Servicing Agreement	2/1/2018	Special Servicer
FREMF 2018-K1507	Pooling and Servicing Agreement	9/1/2018	Master/Special Servicer
FREMF 2018-KJ01	Pooling and Servicing Agreement	2/1/2018	Special Servicer
FREMF 2018-KJ03	Pooling and Servicing Agreement	10/1/2018	Special Servicer
FREMF 2018-KC02	Pooling and Servicing Agreement	9/1/2018	Replacement Special Servicer
FREMF 2018-KJ19	Pooling and Servicing Agreement	3/1/2018	Primary Special Servicer
FREMF 2018-KJ20	Pooling and Servicing Agreement	8/1/2018	Backup Special Servicer
FREMF 2018-KL02	Pooling and Servicing Agreement	3/1/2018	Master Servicer/Special Servicer (Pantzer and Bedrock Loan)
FREMF 2018-KL03	Pooling and Servicing Agreement	10/1/2018	Special Servicer
FREMF 2018-KSL1	Trust and Servicing Agreement	12/1/2018	Special Servicer
FREMF 2018-KS10	Pooling and Servicing Agreement	12/1/2018	Master Servicer
FREMF 2018-KSW4	Pooling and Servicing Agreement	11/1/2018	Master Servicer
FREMF 2018-KW04	Pooling and Servicing Agreement	6/1/2018	Special Servicer
FREMF 2018-KW05	Pooling and Servicing Agreement	6/1/2018	Special Servicer
FREMF 2018-KW06	Pooling and Servicing Agreement	8/1/2018	Special Servicer
FREMF 2018-KW07	Pooling and Servicing Agreement	11/1/2018	Master/Special Servicer
FREMF 2018-KG03	Pooling and Servicing Agreement	5/1/2018	Special Servicer
FREMF 2019-K100	Pooling and Servicing Agreement	11/1/2019	Master/Special Servicer
FREMF 2019-K102	Pooling and Servicing Agreement	12/1/2019	Master/Special Servicer
FREMF 2019-K103	Pooling and Servicing Agreement	12/1/2019	Special Servicer
FREMF 2019-K734	Pooling and Servicing Agreement	4/1/2019	Master/Special Servicer
FREMF 2019-K735	Pooling and Servicing Agreement	7/1/2019	Master Servicer
FREMF 2019-K736	Pooling and Servicing Agreement	9/1/2019	Special Servicer
FREMF 2019-K87	Pooling and Servicing Agreement	1/1/2019	Master/Special Servicer
FREMF 2019-K89	Pooling and Servicing Agreement	3/1/2019	Master/Special Servicer
FREMF 2019-K90	Pooling and Servicing Agreement	4/1/2019	Special Servicer
FREMF 2019-K92	Pooling and Servicing Agreement	5/1/2019	Master/Special Servicer
FREMF 2019-K94	Pooling and Servicing Agreement	7/1/2019	Master/Special Servicer
FREMF 2019-K95	Pooling and Servicing Agreement	8/1/2019	Master/Special Servicer
FREMF 2019-K96	Pooling and Servicing Agreement	8/1/2019	Master/Special Servicer
FREMF 2019-1510	Pooling and Servicing Agreement	2/1/2019	Master/Special Servicer

FREMF 2019-K1513	Pooling and Servicing Agreement	10/1/2019	Master Servicer
FREMF 2019-KBF3	Pooling and Servicing Agreement	1/1/2019	Master/Special Servicer
FREMF 2019-KC05	Pooling and Servicing Agreement	11/1/2019	Master/Special Servicer
FREMF 2019-KF60	Pooling and Servicing Agreement	3/1/2019	Special Servicer
FREMF 2019-KF61	Pooling and Servicing Agreement	5/1/2019	Master Servicer
FREMF 2019-KF63	Pooling and Servicing Agreement	6/1/2019	Master Servicer
FREMF 2019-KF72	Pooling and Servicing Agreement	11/1/2019	Master Servicer
FREMF 2019-KF73	Pooling and Servicing Agreement	12/1/2019	Master Servicer
FREMF 2019-KJ25	Pooling and Servicing Agreement	9/1/2019	Backup Special Servicer
FREMF 2019-KJ27	Pooling and Servicing Agreement	11/1/2019	Backup Special Servicer
FREMF 2019-KL04	Pooling and Servicing Agreement	1/1/2019	Master Servicer
FREMF 2019-KS11	Pooling and Servicing Agreement	8/1/2019	Master/Special Servicer
FREMF 2019-KS12	Pooling and Servicing Agreement	9/1/2019	Master Servicer
FREMF 2019-KS13	Pooling and Servicing Agreement	11/1/2019	Master Servicer
FREMF 2019-KW08	Pooling and Servicing Agreement	3/1/2019	Special Servicer
FREMF 2019-KW10	Pooling and Servicing Agreement	11/1/2019	Master/Special Servicer
FREMF 2020-K108	Pooling and Servicing Agreement	5/1/2020	Master/Special Servicer
FREMF 2020-K114	Pooling and Servicing Agreement	8/1/2020	Master Servicer
FREMF 2020-K115	Pooling and Servicing Agreement	9/1/2020	Master Servicer
FREMF 2020-K116	Pooling and Servicing Agreement	9/1/2020	Master/Special Servicer
FREMF 2020-K738	Pooling and Servicing Agreement	5/1/2020	Special Servicer
FREMF 2020-KF75	Pooling and Servicing Agreement	3/1/2020	Master Servicer
FREMF 2020-KF78	Pooling and Servicing Agreement	4/1/2020	Master Servicer
FREMF 2020-KF79	Pooling and Servicing Agreement	6/1/2020	Master Servicer
FREMF 2020-KF81	Pooling and Servicing Agreement	7/1/2020	Master Servicer
FREMF 2020-KF82	Pooling and Servicing Agreement	8/1/2020	Special Servicer
FREMF 2020-KF88	Pooling and Servicing Agreement	10/1/2020	Master Servicer
FREMF 2020-KF89	Pooling and Servicing Agreement	10/1/2020	Master Servicer
FREMF 2020-KF90	Pooling and Servicing Agreement	11/1/2020	Master Servicer
FREMF 2020-KF91	Pooling and Servicing Agreement	11/1/2020	Master Servicer
FREMF 2020-KF92	Pooling and Servicing Agreement	11/1/2020	Master Servicer
FREMF 2020-KF93	Pooling and Servicing Agreement	12/1/2020	Master/Special Servicer
FREMF 2020-KF95	Pooling and Servicing Agreement	12/1/2020	Master Servicer
FREMF 2020-KG04	Pooling and Servicing Agreement	12/1/2020	Master Servicer
FREMF 2020-KHG2	Trust and Servicing Agreement	3/1/2020	Master/Special Servicer
FREMF 2020-KJ32	Pooling and Servicing Agreement	11/1/2020	Special Servicer
FREMF 2020-KS14	Pooling and Servicing Agreement	9/1/2020	Master Servicer
FREMF 2020-KX04	Pooling and Servicing Agreement	9/1/2020	Special Servicer
FS Rialto 2019-FL1	Servicing Agreement	12/5/2019	Servicer
FREMF 2021-K126	Pooling and Servicing Agreement	3/1/2021	Special Servicer
FREMF 2021-K129	Pooling and Servicing Agreement	6/1/2021	Special Servicer
FREMF 2021-K743	Pooling and Servicing Agreement	6/1/2021	Master Servicer
FREMF 2021-K1521	Pooling and Servicing Agreement	9/1/2021	Special Servicer
FREMF 2021-K1522	Pooling and Servicing Agreement	12/1/2021	Master/Special Servicer
FREMF 2021-KF100	Pooling and Servicing Agreement	3/1/2021	Master Servicer
FREMF 2021-KF102	Pooling and Servicing Agreement	3/1/2021	Master Servicer
FREMF 2021-KF103	Pooling and Servicing Agreement	3/1/2021	Special Servicer
FREMF 2021-KF105	Pooling and Servicing Agreement	4/1/2021	Master Servicer
FREMF 2021-KF106	Pooling and Servicing Agreement	4/1/2021	Master/Special Servicer
FREMF 2021-KF107	Pooling and Servicing Agreement	4/1/2021	Special Servicer
FREMF 2021-KF108	Pooling and Servicing Agreement	4/1/2021	Master Servicer
FREMF 2021-KF111	Pooling and Servicing Agreement	5/1/2021	Master Servicer
FREMF 2021-KF113	Pooling and Servicing Agreement	6/1/2021	Special Servicer
FREMF 2021-KF117	Pooling and Servicing Agreement	7/1/2021	Master Servicer
FREMF 2021-KF119	Pooling and Servicing Agreement	8/1/2021	Master Servicer
FREMF 2021-KF121	Pooling and Servicing Agreement	9/1/2021	Master Servicer
FREMF 2021-KF122	Pooling and Servicing Agreement	10/1/2021	Master Servicer
FREMF 2021-KG06	Pooling and Servicing Agreement	11/1/2021	Master/Special Servicer
FREMF 2021-KJ07	Pooling and Servicing Agreement	11/1/2021	Special Servicer
FREMF 2021-KJ33	Pooling and Servicing Agreement	2/1/2021	Backup Special Servicer
FREMF 2021-KJ34	Pooling and Servicing Agreement	7/1/2021	Backup Special Servicer
FREMF 2021-KLU3	Pooling and Servicing Agreement	5/1/2021	Special Servicer
FREMF 2021-KSG2	Pooling and Servicing Agreement	12/1/2021	Master/Special Servicer
FS RIALTO 2021-FL2	Servicing Agreement	5/5/2021	Servicer
FS RIALTO 2021-FL3	Servicing Agreement	11/4/2021	Servicer
FUNB 2001-C2	Pooling and Servicing Agreement	6/10/2001	Master Servicer
GACM 2019-FL1	Sub Servicing Agreement	6/6/2019	Servicer
GACM 2020-FL2	Servicing Agreement	1/5/2020	Servicer
GAHR 2015-NRF	Trust and Servicing Agreement	2/9/2015	Servicer
GCFCF 2004-GG1	Pooling and Servicing Agreement	5/13/2004	Master Servicer
GCFCF 2004-GG1	Pooling and Servicing Agreement	5/13/2004	Master Servicer
GCFCF 2007-GG9	Pooling and Servicing Agreement	3/1/2007	Master Servicer
FRETE 2017-ML01	Pooling and Servicing Agreement	6/1/2017	Special Servicer
FRETE 2017-ML03	Pooling and Servicing Agreement	11/1/2017	Special Servicer
FRETE 2018-ML04	Pooling and Servicing Agreement	5/1/2018	Special Servicer
FRETE 2012-ML14	Pooling and Servicing Agreement	12/1/2022	Special Servicer
Goldman One Market Plaza 2017-1MKT	Trust and Servicing Agreement	2/6/2017	Servicer/Special Servicer
GPBLT 2005-1	Pooling and Servicing Agreement	7/13/2005	Master Servicer
GPMT 2018-FL1	Pooling and Servicing Agreement	5/9/2018	Master Servicer

GPMT 2019-FL2	Sub Servicing Agreement	2/28/2019	Servicer
GPMT 2021-FL3	Servicing Agreement	5/14/2021	Servicer
GRACE 2014-GRCE	Trust and Servicing Agreement	6/6/2014	Master Servicer
GRACE 2020-GRCE	Trust and Servicing Agreement	11/18/2020	Master Servicer
Greenwich 2007-GG11	Pooling and Servicing Agreement	10/1/2007	Master Servicer
GS 2013-GC13	Pooling and Servicing Agreement	7/1/2013	Master Servicer
GS 2016-GS4	Pooling and Servicing Agreement	11/1/2016	Master Servicer/Special Servicer
GS 2017-STAY	Trust and Servicing Agreement	8/15/2017	Servicer
GSMS 2010-C2	Pooling and Servicing Agreement	12/1/2010	Master Servicer
GSMS 2011-GC3	Pooling and Servicing Agreement	3/1/2011	Master Servicer
GSMS 2011-GC5	Pooling and Servicing Agreement	10/1/2011	Master Servicer
GSMS 2012 -TMSQ	Trust and Servicing Agreement	12/1/2012	Servicer/Special Servicer
GSMS 2012-BWTR	Trust and Servicing Agreement	12/1/2012	Servicer/Special Servicer
GSMS 2012-GCJ7	Pooling and Servicing Agreement	6/1/2012	Master Servicer
GSMS 2012GCJ9	Pooling and Servicing Agreement	11/1/2012	Master Servicer
GSMS 2012-SHOP	Trust and Servicing Agreement	8/1/2012	Servicer/Special Servicer
GSMS 2013-GC10	Pooling and Servicing Agreement	2/1/2013	Master Servicer
GSMS 2013-GC12	Pooling and Servicing Agreement	5/1/2013	Master Servicer
GSMS 2013-GC14	Pooling and Servicing Agreement	8/1/2013	Master Servicer
GSMS 2013-GC14	Pooling and Servicing Agreement	8/1/2013	Master Servicer
GSMS 2013-GC16	Pooling and Servicing Agreement	11/1/2013	Master Servicer
GSMS 2013-KING	Trust and Servicing Agreement	2/1/2013	Servicer/Special Servicer
GSMS 2013-KYO	Trust and Servicing Agreement	2/15/2013	Servicer/Special Servicer
GSMS 2014-GC18	Pooling and Servicing Agreement	1/1/2014	Master Servicer
GSMS 2014-GC22	Pooling and Servicing Agreement	6/1/2014	Master Servicer
GSMS 2014-GC26	Pooling and Servicing Agreement	12/1/2014	Master Servicer
GSMS 2015-590M	Trust and Servicing Agreement	11/10/2015	Servicer
GSMS 2015-GC28	Pooling and Servicing Agreement	2/1/2015	Master Servicer
GSMS 2015-GC34	Pooling and Servicing Agreement	10/1/2015	Master Servicer
GSMS 2015-GS1 (Special)	Pooling and Servicing Agreement	11/1/2015	Special Servicer
GSMS 2016-RENT	Trust and Servicing Agreement	3/18/2016	Master/Special Servicer
GSMS 2016-RENT	Trust and Servicing Agreement	3/18/2016	Servicer/Special Servicer
GSMS 2017-375H	Trust and Servicing Agreement	9/6/2017	Servicer
GSMS 2017-500K	Trust and Servicing Agreement	8/15/2017	Servicer/Special Servicer
GSMS 2017-GS7	Pooling and Servicing Agreement	8/1/2017	Master Servicer
GSMS 2017-GS8	Pooling and Servicing Agreement	11/1/2017	Master Servicer
GSMS 2017-SLP	Trust and Servicing Agreement	10/6/2017	Servicer/Special Servicer
GSMS 2018-3PCK	Trust and Servicing Agreement	9/27/2018	Servicer
GSMS 2018-CHILL	Trust and Servicing Agreement	3/5/2018	Servicer/Special Servicer
GSMS 2018-GS10	Pooling and Servicing Agreement	7/1/2018	Master Servicer
GSMS 2018-GS9	Pooling and Servicing Agreement	3/1/2018	Master Servicer
GSMS 2018-RIVR	Trust and Servicing Agreement	7/27/2018	Servicer/Special Servicer
GSMS 2018-SPR5	Trust and Servicing Agreement	11/15/2018	Servicer
GSMS 2018-TWR	Trust and Servicing Agreement	7/31/2018	Servicer
GSMS 2019-GC38	Pooling and Servicing Agreement	2/1/2019	Master Servicer
GSMS 2020-GC47	Pooling and Servicing Agreement	5/1/2020	Master Servicer
GSMS 2021-ARDN	Trust and Servicing Agreement	11/10/2021	Special Servicer
GSMS 2021-GSA3	Pooling and Servicing Agreement	12/1/2021	Master Servicer
GSMS 2021-IP	Trust and Servicing Agreement	10/15/2021	Servicer
GSMSC 2006-GSFL VIII	Pooling and Servicing Agreement	8/10/2006	Master/Special Servicer
GSMSC 2010-C1	Pooling and Servicing Agreement	8/1/2010	Master/Special Servicer
H2 Financial Funding 1 (WF Repo)	Servicing Agreement	5/9/2011	Servicer
H2 SO III (WF REPO)	Servicing Agreement	7/14/2015	Servicer
H2 Financial Funding (Sheraton Fisherman's Wharf) Strategic H2 SO III (WF Repo)/Washington Sub	Servicing and Sub-Servicing Agreement	1/31/2017	Sub-Servicer
HBST 2015-HBS	Trust and Servicing Agreement	11/1/2015	Servicer
HERA 2021-FL1	Servicing Agreement	2/25/2021	Servicer
Hilton Orlando Trust 2018-ORL	Trust and Servicing Agreement	3/6/2018	Servicer
Hilton USA Trust 2016-HHV	Trust and Servicing Agreement	11/28/2016	Servicer
Hilton USA Trust 2016-SFP	Trust and Servicing Agreement	11/22/2016	Servicer/Special Servicer
HMH 2017-NSS	Trust and Servicing Agreement	6/28/2017	Servicer
HUDSON YARDS 2016-10HY	Trust and Servicing Agreement	8/6/2016	Master Servicer
Hudson Yards 2019-30HY	Trust and Servicing Agreement	7/6/2019	Master Servicer
Hudson Yards 2019-55HY	Trust and Servicing Agreement	12/6/2019	Master Servicer
IMT 2017-APTS	Trust and Servicing Agreement	7/9/2017	Servicer
JAX 2019-LIC	Trust and Servicing Agreement	11/15/2019	Servicer
JP Morgan 2012-C6	Pooling and Servicing Agreement	4/1/2012	Master Servicer
JP Morgan CHT 2016-COSMO	Trust and Servicing Agreement	11/9/2016	Master Servicer/Special Servicer
JP Morgan PCT 2016-PLSD	Trust and Servicing Agreement	4/29/2016	Master/Special Servicer
JPMBB 2013-C15	Pooling and Servicing Agreement	10/1/2013	Master Servicer
JPMBB 2013-C17	Pooling and Servicing Agreement	12/1/2013	Master Servicer
JPMBB 2014-C21	Pooling and Servicing Agreement	7/1/2014	Master Servicer
JPMBB 2014-C22	Pooling and Servicing Agreement	8/1/2014	Master Servicer
JPMBB 2014-C23	Pooling and Servicing Agreement	9/1/2014	Master Servicer
JPMBB 2014-C24	Pooling and Servicing Agreement	10/1/2014	Master Servicer
JPMBB 2014-C25	Pooling and Servicing Agreement	11/1/2014	Master
JPMBB 2015-C28	Pooling and Servicing Agreement	4/1/2015	Master Servicer
JPMBB 2015-C29	Pooling and Servicing Agreement	6/1/2015	Master Servicer

JMBB 2015-C30	Pooling and Servicing Agreement	7/1/2015	Master Servicer
JMBB 2015-C32	Pooling and Servicing Agreement	10/1/2015	Master Servicer
JMBB 2015-C33	Pooling and Servicing Agreement	11/1/2015	Master Servicer
JMBB 2016-C1	Pooling and Servicing Agreement	3/1/2016	Master Servicer
JPMC 2005-LDP2	Pooling and Servicing Agreement	6/1/2005	Master Servicer
JPMC 2006-LDP7	Pooling and Servicing Agreement	6/1/2006	Master Servicer
JPMC 2006-LDP9	Pooling and Servicing Agreement	12/1/2006	Master Servicer
JPMC 2012-CIBX	Pooling and Servicing Agreement	6/1/2012	Master Servicer
JPMCC 2011-PLSD	Trust and Servicing Agreement	12/9/2011	Servicer/Special Servicer
JPMCC 2013-ALC	Trust and Servicing Agreement	8/21/2013	Servicer/Special Servicer
JPMCC 2013-C16	Pooling and Servicing Agreement	11/1/2013	Master Servicer
JPMCC 2014-C20	Pooling and Servicing Agreement	7/1/2015	Master Servicer
JPMCC 2014-DSTY	Trust and Servicing Agreement	8/4/2014	Servicer/Special Servicer
JPMCC 2014-FL5	Pooling and Servicing Agreement	9/29/2014	Master Servicer
JPMCC 2015-COSMO	Trust and Servicing Agreement	3/30/2015	Servicer/Special Servicer
JPMCC 2015-JP1	Pooling and Servicing Agreement	12/1/2015	Master Servicer
JPMCC 2016-ASH	Trust and Servicing Agreement	11/30/2016	Master Servicer
JPMCC 2016-JP2	Pooling and Servicing Agreement	7/1/2016	Master Servicer
JPMCC 2016-NNE	Trust and Servicing Agreement	9/26/2016	Master Servicer/Special Servicer
JPMCC 2017-FL10	Pooling and Servicing Agreement	8/10/2017	Servicer
JPMCC 2017-JP7	Pooling and Servicing Agreement	7/1/2017	Master Servicer
JPMCC 2017-MARK	Trust and Servicing Agreement	6/1/2017	Servicer/Special Servicer
JPMCC 2018-ASH8	Trust and Servicing Agreement	2/28/2018	Servicer/Special Servicer
JPMCC 2018-LAQ	Trust and Servicing Agreement	7/6/2018	Servicer
JPMCC 2018-PTC	Trust and Servicing Agreement	5/16/2018	Servicer
JPMCC 2021-1440	Trust and Servicing Agreement	3/5/2021	Special Servicer
JPMCC 2021-2NU	Trust and Servicing Agreement	1/29/2021	Servicer
JPMDB 2016-C2	Pooling and Servicing Agreement	5/1/2016	Master Servicer
JPMDB 2016-C4	Pooling and Servicing Agreement	11/1/2016	Master Servicer
JPMDB 2016-JP4	Pooling and Servicing Agreement	12/1/2016	Master Servicer
JPMDB 2017-C5	Pooling and Servicing Agreement	3/1/2017	Master Servicer
JPMDB 2018-C8	Pooling and Servicing Agreement	6/1/2018	Master Servicer
JWM 2017 Mezzanine Trust	Trust and Servicing Agreement	2/1/2017	Servicer/Special Servicer
LB 1998-C4	Pooling and Servicing Agreement	11/1/1998	Master Servicer
LB 1999-C1	Pooling and Servicing Agreement	6/1/1999	Master Servicer
LBUBS 2001-C3	Pooling and Servicing Agreement	7/1/2001	Master Servicer
LBUBS 2003-C8	Pooling and Servicing Agreement	11/11/2003	Master Servicer
LBUBS 2004-C1	Pooling and Servicing Agreement	1/12/2004	Master Servicer
LBUBS 2004-C4	Pooling and Servicing Agreement	5/11/2004	Master Servicer
LBUBS 2004-C6	Pooling and Servicing Agreement	8/11/2004	Master Servicer
LBUBS 2004-C8	Pooling and Servicing Agreement	11/12/2004	Master Servicer
LBUBS 2005-C1	Pooling and Servicing Agreement	1/11/2005	Master Servicer
LBUBS 2005-C5	Pooling and Servicing Agreement	8/11/2005	Master Servicer
LBUBS 2005-C5	Pooling and Servicing Agreement	8/11/2005	Master Servicer
LBUBS 2005-C7	Pooling and Servicing Agreement	10/11/2005	Master Servicer
LBUBS 2006-C3	Pooling and Servicing Agreement	3/13/2006	Master Servicer
LBUBS 2006-C4	Pooling and Servicing Agreement	6/12/2006	Master Servicer
LBUBS 2006-C6	Pooling and Servicing Agreement	9/11/2006	Master Servicer
LBUBS 2006-C7	Pooling and Servicing Agreement	11/13/2006	Master Servicer
LCCM 2013-GCP	Trust and Servicing Agreement	3/1/2013	Master/Special Servicer
LCCM 2014-909	Trust and Servicing Agreement	6/1/2014	Master Servicer
LCCM 2017-FL1	Servicing Agreement	10/17/2017	Servicer
LCCM 2017-FL2	Pooling and Servicing Agreement	12/21/2017	Servicer/Special Servicer
LCCM 2017-4C26	Pooling and Servicing Agreement	6/1/2017	Master Servicer
LCCM 2020-FL3	Servicing Agreement	4/27/2020	Servicer/Special Servicer
LCCM 2021-FL2	Servicing Agreement	7/13/2021	Servicer
LCCM 2021-FL3	Servicing Agreement	12/2/2021	Servicer
Leonardo Asset Fund	Mezzanine Servicing Agreement	9/23/2020	Servicer
Lone Star/LSTAR I, LLC (WF Repo)	Servicing Agreement	9/22/2016	Servicer
LSTAR 2015-3	Pooling and Servicing Agreement	6/1/2015	Master Servicer
LSTAR 2016-4	Pooling and Servicing Agreement	6/1/2016	Master Servicer
LSTAR 2017-5	Pooling and Servicing Agreement	3/1/2017	Master Servicer
LVSIREPO	Servicing Agreement	12/15/2008	Servicer
MAD 2017-330M	Trust and Servicing Agreement	8/15/2017	Servicer
Manhattan West 2020-IMW	Trust and Servicing Agreement	8/28/2020	Master Servicer
MED 2021-MDLN	Trust and Servicing Agreement	11/15/2021	Servicer/Special Servicer
MKT 2020-525M	Trust and Servicing Agreement	2/26/2020	Servicer
MOFT 2020-ABC	Trust and Servicing Agreement	2/26/2020	Servicer
MS2012-C6	Pooling and Servicing Agreement	10/1/2012	Master Servicer
MSBAM 2013-C11	Pooling and Servicing Agreement	8/1/2013	Master Servicer
MSBAM 2013-C12	Pooling and Servicing Agreement	10/1/2013	Master Servicer
MSBAM 2013-C13	Pooling and Servicing Agreement	12/1/2013	Master Servicer
MSBAM 2013-C8	Pooling and Servicing Agreement	2/1/2013	Master Servicer
MSBAM 2014-C14	Pooling and Servicing Agreement	2/1/2014	Master Servicer
MSBAM 2014-C15	Pooling and Servicing Agreement	4/1/2014	Master Servicer
MSBAM 2014-C16	Pooling and Servicing Agreement	6/1/2014	Master Servicer
MSBAM 2014-C17	Pooling and Servicing Agreement	8/1/2014	Master Servicer
MSBAM 2014-C18	Pooling and Servicing Agreement	9/1/2014	Master Servicer

MSBAM 2014-C19	Pooling and Servicing Agreement	12/1/2014	Master Servicer
MSBAM 2015-C22	Pooling and Servicing Agreement	4/1/2015	Master Servicer
MSBAM 2015-C23	Pooling and Servicing Agreement	6/1/2015	Master/Excluded Mortgage Loan Special Servicer
MSBAM 2015-C24	Pooling and Servicing Agreement	8/1/2015	Master Servicer
MSBAM 2015-C25	Pooling and Servicing Agreement	10/1/2015	Master Servicer
MSBAM 2015-C26	Pooling and Servicing Agreement	11/1/2015	Master Servicer and initial Excluded Special Servicer
MSBAM 2015-C27	Pooling and Servicing Agreement	11/1/2015	Master Servicer
MSBAM 2016-C28	Pooling and Servicing Agreement	2/1/2016	Master Servicer
MSBAM 2016-C29	Pooling and Servicing Agreement	5/1/2016	Master Servicer
MSBAM 2016-C30	Pooling and Servicing Agreement	9/1/2016	Master Servicer
MSBAM 2016-C31	Pooling and Servicing Agreement	11/1/2016	Master Servicer
MSBAM 2016-C32	Pooling and Servicing Agreement	12/1/2016	Master Servicer
MSBAM 2017-C33	Pooling and Servicing Agreement	5/1/2017	Master Servicer
MSBAM 2017-C34	Pooling and Servicing Agreement	10/1/2017	Master Servicer
MSC 2011-C3	Pooling and Servicing Agreement	10/1/2011	Master Servicer
MSC 2014-MP	Trust and Servicing Agreement	11/7/2014	Servicer/Special Servicer
MSC 2016-BNK2	Pooling and Servicing Agreement	11/1/2016	Master Servicer
MSC 2016-PSQ	Trust and Servicing Agreement	2/1/2016	Servicer/Special Servicer
MSC 2017-ASH	Trust and Servicing Agreement	12/9/2017	Servicer
MSC 2017-HR2	Pooling and Servicing Agreement	12/1/2017	Master Servicer
MSC 2018-H3	Pooling and Servicing Agreement	7/1/2018	Master Servicer
MSC 2018-MP	Trust and Servicing Agreement	8/7/2018	Servicer/Special Servicer
MSC 2019-L3	Pooling and Servicing Agreement	11/1/2019	Master Servicer
MSC 2020-HR8	Pooling and Servicing Agreement	7/1/2020	Master Servicer
MSC 2021-PLZA	Trust and Servicing Agreement	11/1/2021	Servicer/Special Servicer
MSCCG 2018-SELF	Trust and Servicing Agreement	10/30/2018	Servicer/Special Servicer
MSCI 2007-HQ13	Pooling and Servicing Agreement	12/1/2007	Master Servicer
MSCI 2007-HQ14 (Primary only)	Pooling and Servicing Agreement	5/1/2007	Master/ Special Servicer
MSCI 2015-420	Trust and Servicing Agreement	3/7/2015	Servicer/Special Servicer
MSDB 2017-712F	Trust and Servicing Agreement	7/25/2017	Servicer/Special Servicer
MSDWMC 2000-F1	Pooling and Servicing Agreement	9/1/2000	Master Servicer
MSJP 2015-HAUL	Trust and Servicing Agreement	10/1/2015	Servicer/Special Servicer
MSSG 2017-237P	Trust and Servicing Agreement	8/9/2017	Servicer/Special Servicer
MTRO 2019-TECH	Trust and Servicing Agreement	2/9/2019	Servicer
NCMS 2018-ALXA	Trust and Servicing Agreement	2/23/2018	Servicer
NCMS 2018-FL1	Pooling and Servicing Agreement	7/6/2018	Servicer
NCMS 2018-TECH	Trust and Servicing Agreement	1/31/2018	Servicer/Special Servicer
New Orleans 2019-HNLA	Trust and Servicing Agreement	5/15/2019	Servicer
NLY 2014-FL1	Pooling and Servicing Agreement	1/1/2014	Master Servicer
NRFCHREPO	Servicing Agreement	10/15/2013	Servicer
NSREITDOR	Servicing Agreement	6/2/2015	Servicer
NXT Capital Funding II	Servicing Agreement	7/28/2010	Servicer
NYT 2019-NYT	Trust and Servicing Agreement	1/30/2019	Master Servicer
ONE BRYANT PARK 2019-OBP	Servicing Agreement	8/21/2019	Master Servicer/Special Servicer
ONYP 2020-INYP	Trust and Servicing Agreement	12/29/2020	Master Servicer
PFP 2015-2	Pooling and Servicing Agreement	8/3/2015	Master Servicer
PFP 2017-3	Servicing Agreement	3/22/2017	Master Servicer
PFP 2017-4	Servicing Agreement	10/5/2017	Master/Special Servicer
PFP 2019-5	Pooling and Servicing Agreement	4/25/2019	Master/ Special Servicer
PFP 2019-6	Pooling and Servicing Agreement	12/5/2019	Master/Special Servicer
PFP III 2014-1	Pooling and Servicing Agreement	5/9/2014	Master Servicer
PFP III	Pooling and Servicing Agreement	5/9/2014	Master Servicer
PFP III WFB	Pooling and Servicing Agreement	5/9/2014	Master Servicer
QCMT 2013-QC	Trust and Servicing Agreement	1/1/2013	Servicer/Special Servicer
RBS 2010-MB1	Pooling and Servicing Agreement	4/22/2010	Master/Special Servicer
RBSCF 2013-GSP	Trust and Servicing Agreement	12/6/2013	Master/Special Servicer
RBSCF 2013-SMV	Trust and Servicing Agreement	2/1/2013	Servicer/Special Servicer
RESOURCE 2014-CRE2	Servicing Agreement	7/30/2014	Servicer
RESOURCE REP	Servicing Agreement	2/27/2012	Servicer
ROC Debt Strategies II	Pooling and Servicing Agreement	10/24/2016	Master Servicer
RSO 2015-CRE3	Servicing Agreement	2/24/2015	Servicer
RSO 2015-CRE4	Servicing Agreement	8/18/2015	Servicer
Sasco 2008-C2	Pooling and Servicing Agreement	5/22/2008	Master Servicer
SBL 2016-KIND	Trust and Servicing Agreement	3/6/2016	Master/Special Servicer
Series 2013-SRP1	Trust and Servicing Agreement	12/1/2013	Master/Special Servicer
SGCM 2016-C5	Pooling and Servicing Agreement	7/1/2016	Master Servicer
SGCMS 2019-787E	Trust and Servicing Agreement	2/20/2019	Servicer
SGCMS 2020-COVE	Trust and Servicing Agreement	2/12/2020	Servicer
SGCP 2018-FL1	Servicing Agreement	7/31/2018	Servicer/Special Servicer
SFAVE 2015-5AVE	Trust and Servicing Agreement	2/11/2015	Master/Special Servicer
SLG 2021-OVA	Trust and Servicing Agreement	6/24/2021	Servicer
SLGJPMREPO	Servicing Agreement	1/28/2013	Servicer
SREIT 2021-FLWR	Trust and Servicing Agreement	7/22/2021	Servicer
SREIT 2021-IND	Trust and Servicing Agreement	10/28/2021	Servicer/Special Servicer
SREIT 2021-MFP	Trust and Servicing Agreement	11/9/2021	Servicer
SREIT 2021-PALM	Trust and Servicing Agreement	10/21/2021	Servicer
SRPT 2014-STAR	Trust and Servicing Agreement	11/14/2014	Servicer/Special Servicer
STARCTI6	Servicing Agreement	3/26/2012	Servicer

STWD 2018-URB	Trust and Servicing Agreement	9/9/2018	Servicer
STWD 2019-FL1	Servicing Agreement	8/15/2019	Servicer
STWD 2021-FL2	Servicing Agreement	5/5/2021	Servicer
STWD 2021-HTS	Trust and Servicing Agreement	7/29/2021	Servicer
STWD 2021-HTS	Trust and Servicing Agreement	7/29/2021	Servicer
STWD 2021-LIH	Trust and Servicing Agreement	11/22/2021	Servicer
Theraldon COMM 2011-THKNL	Trust and Servicing Agreement	7/1/2011	Servicer/Special Servicer
Times Square Hotel Trust 2001	Trust and Servicing Agreement	8/9/2001	Servicer
TMSQ 2014-1500	Trust and Servicing Agreement	10/10/2014	Master/Special Servicer
TRTX 2018-FL1	Sub Servicing Agreement	2/14/2018	Servicer
TRU 2016-TOYS	Trust and Servicing Agreement	11/3/2016	Master Servicer/Special Servicer
UBS 2012-C1	Pooling and Servicing Agreement	5/1/2012	Master Servicer
UBS 2017-C1	Pooling and Servicing Agreement	6/1/2017	Master Servicer
UBS 2017-C4	Pooling and Servicing Agreement	10/1/2017	Master Servicer
UBS 2017-C6	Pooling and Servicing Agreement	12/1/2017	Master Servicer
UBS 2017-C7	Pooling and Servicing Agreement	12/1/2017	Master Servicer
UBS 2018-C10	Pooling and Servicing Agreement	5/1/2018	Master Servicer
UBS 2019-C17	Pooling and Servicing Agreement	10/1/2019	Master Servicer
UBS 2019-C18	Pooling and Servicing Agreement	12/1/2019	Master Servicer
UBS-Barclays 2012-C2	Pooling and Servicing Agreement	7/1/2012	Master Servicer
UBS-Barclays 2012-C4	Pooling and Servicing Agreement	12/1/2012	Master Servicer
UBS-Citigroup 2011-C1	Pooling and Servicing Agreement	12/1/2011	Master Servicer
UBSCM 2018-NYCH	Trust and Servicing Agreement	2/26/2018	Master Servicer
UCB 2007-1	Pooling and Servicing Agreement	8/31/2007	Servicer/ Special Servicer
US 2018-USDC	Trust and Servicing Agreement	6/9/2018	Servicer/Special Servicer
VLS 2020-LAB	Trust and Servicing Agreement	11/6/2020	Master Servicer
Vornado DP LLC 2010-VNO	Trust and Servicing Agreement	8/18/2010	Servicer/Special Servicer
WABR 2016-BOCA	Trust and Servicing Agreement	7/18/2016	Special Servicer
Wachovia 2004-C11	Pooling and Servicing Agreement	4/1/2004	Master Servicer
Wachovia 2004-C15	Pooling and Servicing Agreement	11/1/2004	Master/ Special Servicer
Wachovia 2005-C21	Pooling and Servicing Agreement	10/1/2005	Master Servicer
WACHOVIA 2006-C24	Pooling and Servicing Agreement	3/1/2006	Master Servicer
Wachovia 2007-C31	Pooling and Servicing Agreement	5/1/2007	Master Servicer
Wachovia 2007-C33	Pooling and Servicing Agreement	8/1/2007	Master Servicer
Wachovia CRE CDO 2006-1	Pooling and Servicing Agreement	7/11/2006	Master/Special Servicer
WB FNB 2004-1	Trust and Servicing Agreement	4/22/2004	Master/Special Servicer
WB RDI 2004-1	Trust and Servicing Agreement	4/22/2004	Master/Special Servicer
WBHT 2019-WBM	Trust and Servicing Agreement	2/20/2019	Servicer
WFCG 2015-BXRP	Trust and Servicing Agreement	4/1/2015	Servicer
WFCM 2013-120B	Trust and Servicing Agreement	3/1/2013	Master/Special Servicer
WFCM 2013-BTC	Trust and Servicing Agreement	4/1/2013	Master Servicer
WFCM 2013-LC12	Pooling and Servicing Agreement	7/1/2013	Master Servicer
WFCM 2014-LC16	Pooling and Servicing Agreement	6/1/2014	Master Servicer
WFCM 2014-LC18	Pooling and Servicing Agreement	12/1/2014	General Master Servicer
WFCM 2014-TISH	Pooling and Servicing Agreement	3/1/2014	Master Servicer
WFCM 2015-C26	Pooling and Servicing Agreement	2/1/2015	General Master Servicer
WFCM 2015-C27	Pooling and Servicing Agreement	3/1/2015	Master Servicer
WFCM 2015-C28	Pooling and Servicing Agreement	5/1/2015	Master Servicer
WFCM 2015-C29	Pooling and Servicing Agreement	6/1/2015	General Master Servicer
WFCM 2015-C30	Pooling and Servicing Agreement	8/1/2015	Master Servicer
WFCM 2015-C31	Pooling and Servicing Agreement	11/1/2015	Master Servicer
WFCM 2015-LC20	Pooling and Servicing Agreement	9/1/2015	General Master Servicer
WFCM 2015-LC22	Pooling and Servicing Agreement	9/1/2015	General Master Servicer
WFCM 2015-NXS1	Pooling and Servicing Agreement	4/1/2015	Master Servicer
WFCM 2015-NXS2	Pooling and Servicing Agreement	7/1/2015	Master Servicer
WFCM 2015-NXS3	Pooling and Servicing Agreement	10/1/2015	General Master Servicer
WFCM 2015-NXS4	Pooling and Servicing Agreement	12/1/2015	Master Servicer
WFCM 2015-P2	Pooling and Servicing Agreement	12/1/2015	Master Servicer
WFCM 2015-SG1	Pooling and Servicing Agreement	8/1/2015	Master Servicer
WFCM 2016-BNK1	Pooling and Servicing Agreement	8/1/2016	Master Servicer
WFCM 2016-C32	Pooling and Servicing Agreement	2/1/2016	Master Servicer
WFCM 2016-C33	Pooling and Servicing Agreement	3/1/2016	Master Servicer
WFCM 2016-C34	Pooling and Servicing Agreement	5/1/2016	Master Servicer
WFCM 2016-C35	Pooling and Servicing Agreement	7/1/2016	Master Servicer
WFCM 2016-C36	Pooling and Servicing Agreement	11/1/2016	Master Servicer
WFCM 2016-C37	Pooling and Servicing Agreement	12/1/2016	Master Servicer
WFCM 2016-LC24	Pooling and Servicing Agreement	9/1/2016	Master Servicer
WFCM 2016-LC25	Pooling and Servicing Agreement	12/1/2016	Master Servicer
WFCM 2016-NXS5	Pooling and Servicing Agreement	2/1/2016	Master Servicer
WFCM 2016-NXS6	Pooling and Servicing Agreement	10/1/2016	Master Servicer
WFCM 2017-C38	Pooling and Servicing Agreement	7/1/2017	Master Servicer
WFCM 2017-C39	Pooling and Servicing Agreement	8/1/2017	Master Servicer
WFCM 2017-C40	Pooling and Servicing Agreement	10/1/2017	Master Servicer
WFCM 2017-C41	Pooling and Servicing Agreement	11/1/2017	Master Servicer
WFCM 2017-C42	Pooling and Servicing Agreement	12/1/2017	Master Servicer
WFCM 2017-HSDB	Trust and Servicing Agreement	11/30/2017	Servicer
WFCM 2017-RB1	Pooling and Servicing Agreement	3/1/2017	Master Servicer
WFCM 2017-RC1	Pooling and Servicing Agreement	3/1/2017	General Master Servicer

WFCM 2017-SMP	Trust and Servicing Agreement	12/21/2017	Servicer
WFCM 2018-1745	Trust and Servicing Agreement	7/2/2018	Servicer
WFCM 2018-AUS	Trust and Servicing Agreement	7/30/2018	Servicer
WFCM 2018-BX1	Trust and Servicing Agreement	1/25/2018	Servicer
WFCM 2018-C43	Pooling and Servicing Agreement	3/1/2018	Master Servicer
WFCM 2018-C44	Pooling and Servicing Agreement	5/1/2018	Master Servicer
WFCM 2018-C45	Pooling and Servicing Agreement	7/1/2018	Master Servicer
WFCM 2018-C46	Pooling and Servicing Agreement	8/1/2018	Master Servicer
WFCM 2018-C47	Pooling and Servicing Agreement	10/1/2018	Master Servicer
WFCM 2018-C48	Pooling and Servicing Agreement	12/1/2018	Master Servicer
WFCM 2019-C49	Pooling and Servicing Agreement	3/1/2019	Master Servicer
WFCM 2019-C50	Pooling and Servicing Agreement	5/1/2019	Master Servicer
WFCM 2019-C51	Pooling and Servicing Agreement	7/1/2019	Master Servicer
WFCM 2019-C52	Pooling and Servicing Agreement	8/1/2019	Master Servicer
WFCM 2019-C53	Pooling and Servicing Agreement	11/1/2019	Master Servicer
WFCM 2019-C54	Pooling and Servicing Agreement	12/1/2019	Master Servicer
WFCM 2019-JWDR	Trust and Servicing Agreement	10/8/2019	Servicer
WFCM 2020-C55	Pooling and Servicing Agreement	2/1/2020	Master Servicer
WFCM 2020-C56	Pooling and Servicing Agreement	6/1/2020	Master Servicer
WFCM 2020-C57	Pooling and Servicing Agreement	8/1/2020	Master Servicer
WFCM 2020-C58	Pooling and Servicing Agreement	12/1/2020	Master Servicer
WFCM 2021-C59	Pooling and Servicing Agreement	5/1/2021	Master Servicer
WFCM 2021-C60	Pooling and Servicing Agreement	7/1/2021	Master Servicer
WFCM 2021-C61	Pooling and Servicing Agreement	12/1/2021	Master Servicer
WFCM 2021-FCMT	Trust and Servicing Agreement	5/14/2021	Servicer
WFCM 2021-SAVE	Trust and Servicing Agreement	2/17/2021	Servicer
WFCM12LCS	Pooling and Servicing Agreement	12/1/2016	General Master Servicer
WFLD 2014-MONT	Trust and Servicing Agreement	8/1/2014	Master Servicer
WFRBS 2011-C2	Pooling and Servicing Agreement	3/1/2011	Master Servicer
WFRBS 2011-C3	Pooling and Servicing Agreement	10/1/2011	Master Servicer
WFRBS 2011-C4	Pooling and Servicing Agreement	8/1/2011	Master Servicer
WFRBS 2011-C5	Pooling and Servicing Agreement	11/1/2011	Master Servicer
WFRBS 2012 C6	Pooling and Servicing Agreement	4/1/2012	Master Servicer
WFRBS 2012 C7	Pooling and Servicing Agreement	6/1/2012	Master Servicer
WFRBS 2012-C10	Pooling and Servicing Agreement	12/1/2012	Master Servicer
WFRBS 2012-C8	Pooling and Servicing Agreement	8/1/2012	Master Servicer
WFRBS 2012-C9	Pooling and Servicing Agreement	10/1/2012	Master Servicer
WFRBS 2013-C11	Pooling and Servicing Agreement	2/1/2013	Master Servicer
WFRBS 2013-C12	Pooling and Servicing Agreement	3/1/2013	Master Servicer
WFRBS 2013-C13	Pooling and Servicing Agreement	5/1/2013	General Master Servicer
WFRBS 2013-C14	Pooling and Servicing Agreement	6/1/2013	Master Servicer
WFRBS 2013-C15	Pooling and Servicing Agreement	8/1/2013	General Master Servicer
WFRBS 2013-C16	Pooling and Servicing Agreement	9/1/2013	General Master Servicer
WFRBS 2013-C17	Pooling and Servicing Agreement	12/1/2013	Master Servicer
WFRBS 2013-C18	Pooling and Servicing Agreement	12/1/2013	General Master Servicer
WFRBS 2013-UBS1	Pooling and Servicing Agreement	12/1/2013	Master Servicer
WFRBS 2014-C19	Pooling and Servicing Agreement	3/1/2014	General Master Servicer
WFRBS 2014-C20	Pooling and Servicing Agreement	5/1/2014	General Master Servicer
WFRBS 2014-C21	Pooling and Servicing Agreement	8/1/2014	General Master Servicer
WFRBS 2014-C22	Pooling and Servicing Agreement	9/1/2014	General Master Servicer
WFRBS 2014-C23	Pooling and Servicing Agreement	9/1/2014	Master Servicer
WFRBS 2014-C24	Pooling and Servicing Agreement	11/1/2014	Master Servicer
WFRBS 2014-C25	Pooling and Servicing Agreement	12/1/2014	Master
WFRBS 2014-LC14	Pooling and Servicing Agreement	2/1/2014	Master Servicer
WTOWN 2017-KNOX	Trust and Servicing Agreement	7/1/2017	Servicer/Special Servicer
WWPT 2017-WWP	Trust and Servicing Agreement	11/10/2017	Servicer
7 World Trade Center	Servicing Agreement	3/15/2022	Master Servicer
BANK 2022-BNK39	Pooling and Servicing Agreement	2/1/2022	General Master Servicer
BANK 2022-BNK40	Pooling and Servicing Agreement	3/1/2022	General Master Servicer
BANK 2022-BNK41	Pooling and Servicing Agreement	5/1/2022	General Master Servicer
BANK 2022-BNK42	Pooling and Servicing Agreement	6/1/2022	General Master Servicer
BANK 2022-BNK43	Pooling and Servicing Agreement	8/1/2023	General Master Servicer
BANK 2022-BNK44	Pooling and Servicing Agreement	11/1/2022	General Master Servicer
BDS 2022-FL11	Servicing Agreement	4/14/2022	Servicer/Special Servicer
BDS 2022-FL12	Servicing Agreement	9/22/2022	Servicer/Special Servicer
BPR 2022-OANA	Trust and Servicing Agreement	4/19/2022	Servicer
BPR 2022-STAR	Trust and Servicing Agreement	8/18/2022	Servicer
BX 2022-AHP	Trust and Servicing Agreement	2/15/2022	Servicer
BX 2022-CSMO	Trust and Servicing Agreement	6/9/2022	Servicer/Special Servicer
BX 2022-GPA	Trust and Servicing Agreement	9/29/2022	Servicer
CXP 2022-CXP1 (Special only)	Trust and Servicing Agreement	9/20/2022	Special Servicer
Fort CRE 2022-FL3	Servicing Agreement	2/24/2022	Master Servicer
FREMF 2022-K750	Pooling and Servicing Agreement	11/1/2022	Master Servicer
FREMF 2022-KF128	Pooling and Servicing Agreement	1/1/2022	Master/Special Servicer
FREMF 2022-KF130	Pooling and Servicing Agreement	2/1/2022	Master/Special Servicer
FREMF 2022-KF131	Pooling and Servicing Agreement	2/1/2022	Master Servicer
FREMF 2022-KF132	Pooling and Servicing Agreement	3/1/2022	Master Servicer
FREMF 2022-KF134	Pooling and Servicing Agreement	4/1/2022	Master Servicer

FREMF 2022-KF135	Pooling and Servicing Agreement	5/1/2022	Master Servicer
FREMF 2022-KF137	Pooling and Servicing Agreement	6/1/2022	Master Servicer
FREMF 2022-KF138	Pooling and Servicing Agreement	6/1/2022	Master/Special Servicer
FREMF 2022-KF140	Pooling and Servicing Agreement	7/1/2022	Master Servicer
FREMF 2022-KF141	Pooling and Servicing Agreement	8/1/2022	Master/Special Servicer
FREMF 2022-KF142	Pooling and Servicing Agreement	9/1/2022	Master Servicer
FREMF 2022-KF143	Pooling and Servicing Agreement	9/1/2022	Master Servicer
FREMF 2022-KF145	Pooling and Servicing Agreement	11/1/2022	Master Servicer
FREMF 2022-KF146	Pooling and Servicing Agreement	11/1/2022	Master Servicer
FREMF 2022-KF148	Pooling and Servicing Agreement	12/1/2022	Master Servicer
FREMF 2022-KJ09	Pooling and Servicing Agreement	9/1/2022	Special Servicer
FREMF 2022-KJ38	Pooling and Servicing Agreement	3/1/2022	Backup Special Servicer
FREMF 2022-KJ41	Pooling and Servicing Agreement	8/1/2022	Special Servicer
FS Rialto 2022-FL4	Servicing Agreement	3/31/2022	Servicer
FS Rialto 2022-FL5	Servicing Agreement	6/16/2022	Servicer
FS Rialto 2022-FL6	Servicing Agreement	8/25/2022	Servicer
FS Rialto 2022-FL7	Servicing Agreement	12/7/2022	Servicer
INTOWN 2022-STAY	Trust and Servicing Agreement	8/15/2022	Master Servicer
Potomac Tower 2022-1	Servicing Agreement	4/4/2022	Servicer
RIAL 2022-FL8	Servicing Agreement	5/20/2022	Servicer
SPGN 2022-TFLM	Trust and Servicing Agreement	2/25/2022	Master Servicer
STWD 2022-FL3	Servicing Agreement	2/1/2022	Servicer
TCO 2022-DPM	Trust and Servicing Agreement	5/16/2022	Servicer
WFCM 2022-C62	Pooling and Servicing Agreement	4/1/2022	Master Servicer
WFCM 2022-JS2	Trust and Servicing Agreement	1/27/2022	Servicer
WFCM 2022-ONL	Trust and Servicing Agreement	3/9/2022	Servicer
WMRK 2022-WMRK	Trust and Servicing Agreement	11/9/2022	Servicer
BANK 2023-BNK45	Pooling and Servicing Agreement	2/1/2023	Master Servicer
BANK5 2023-5YR1	Pooling and Servicing Agreement	4/1/2023	Master Servicer
MSWF 2023-1	Pooling and Servicing Agreement	5/1/2023	Master Servicer
BANK5 2023-5YR2	Pooling and Servicing Agreement	7/1/2023	Master Servicer
BANK 2023-BNK46	Pooling and Servicing Agreement	8/1/2023	General Master Servicer
BANK5 2023-5YR3	Pooling and Servicing Agreement	9/1/2023	Master Servicer
BANK5 2023-5YR4	Pooling and Servicing Agreement	12/1/2023	Master Servicer
MSWF 2023-2	Pooling and Servicing Agreement	12/1/2023	Master Servicer
BGL Pinhurst 2023-1	Servicing Agreement	2/3/2023	Servicer
BLP 2023-IND	Trust and Servicing Agreement	2/28/2023	Servicer
PGA 2023-RSRT	Trust and Servicing Agreement	4/21/2023	Servicer
COAST 2023-HHTL	Trust and Servicing Agreement	7/25/2023	Servicer
SCG 2023-NASH	Trust and Servicing Agreement	11/29/2023	Servicer
BPR 2023-STON	Trust and Servicing Agreement	12/18/2023	Master Servicer
KSL 2023-HIT	Trust and Servicing Agreement	12/20/2023	Servicer
DTP 2023-STE2	Trust and Servicing Agreement	12/28/2023	Servicer
FREMF 2023-K153	Pooling and Servicing Agreement	1/1/2023	Special Servicer
FREMF 2023-KF149	Pooling and Servicing Agreement	1/1/2023	Master Servicer
FREMF 2023-KF151	Pooling and Servicing Agreement	2/1/2023	Master Servicer
FREMF 2023-KF153	Pooling and Servicing Agreement	4/1/2023	Master Servicer
FREMF 2023-KF154	Pooling and Servicing Agreement	4/1/2023	Master Servicer
FREMF 2023-K751	Pooling and Servicing Agreement	5/1/2023	Master Servicer
FREMF 2023-KF155	Pooling and Servicing Agreement	5/1/2023	Master Servicer
FREMF 2023-KG08	Pooling and Servicing Agreement	7/1/2023	Master Servicer
FREMF 2023-KF158	Pooling and Servicing Agreement	7/1/2023	Special Servicer
FREMF 2023-K159	Pooling and Servicing Agreement	9/1/2023	Special Servicer
FREMF 2023-KJ47	Pooling and Servicing Agreement	9/1/2023	Backup Special Servicer
FREMF 2023-K752	Pooling and Servicing Agreement	8/1/2023	Master Servicer
FREMF 2023-K508	Pooling and Servicing Agreement	10/1/2023	Master Servicer
FREMF 2023-K160	Pooling and Servicing Agreement	10/1/2023	Master Servicer
FREMF 2023-KS15	Pooling and Servicing Agreement	10/1/2023	Special Servicer
FREMF 2023-KS11	Pooling and Servicing Agreement	12/1/2023	Master Servicer
FREMF 2023-KF160	Pooling and Servicing Agreement	12/1/2023	Master Servicer
FREMF 2023-KF161	Pooling and Servicing Agreement	12/1/2023	Master Servicer
Benchmark 2023-V2	Subservicing Agreement	5/1/2023	Subservicer
BANK5 2024-5YR5	Pooling and Servicing Agreement	2/1/2024	Master Servicer
BMO 2024-SC3	Pooling and Servicing Agreement	5/1/2024	Master Servicer
BMO 2024-C8	Pooling and Servicing Agreement	3/1/2024	Master Servicer
BANK5 2024-5YR6	Pooling and Servicing Agreement	5/1/2024	Master Servicer
BBCMS 2024-C26	Pooling and Servicing Agreement	5/1/2024	Master Servicer
BANK5 2024-5YR7	Pooling and Servicing Agreement	6/1/2024	Master Servicer
BANK 2024-BNK47	Pooling and Servicing Agreement	6/1/2024	Master Servicer
BBCMS 2024-5C27	Pooling and Servicing Agreement	7/1/2024	Master Servicer
BMARK 2024-V8	Pooling and Servicing Agreement	7/1/2024	Master Servicer
WFCM 2024-5C1	Pooling and Servicing Agreement	7/1/2024	Master Servicer
BANK5 2024-5YR8	Pooling and Servicing Agreement	8/1/2024	Master Servicer
WFCM 2024-C63	Pooling and Servicing Agreement	8/1/2024	Master Servicer
BBCMS 2024-C28	Pooling and Servicing Agreement	8/1/2024	Master Servicer
BANK5 2024-5YR9	Pooling and Servicing Agreement	8/1/2024	Master Servicer
MSC 2024-NSTB	Pooling and Servicing Agreement	9/27/2024	Master Servicer
BANK 2024-BNK48	Pooling and Servicing Agreement	10/1/2024	Master Servicer

BANK5 2024-5YR10	Pooling and Servicing Agreement	10/1/2024	Master Servicer
BANK5 2024-5YR11	Pooling and Servicing Agreement	11/1/2024	Master Servicer
WFCM 2024-5C2	Pooling and Servicing Agreement	11/1/2024	Master Servicer
BANK5 2024-5YR12	Pooling and Servicing Agreement	12/1/2024	Master Servicer
BMO 2024-5C8	Pooling and Servicing Agreement	12/1/2024	Master Servicer
BMARK 2024-V12	Pooling and Servicing Agreement	12/1/2024	Master Servicer
BBCMS 2024-5C25	Sub-Servicing Agreement	3/1/2024	Primary Servicer
BX 2024-MF	Trust and Servicing Agreement	2/15/2024	Servicer
BX 2024-PAT	Trust and Servicing Agreement	3/19/2024	Servicer/Special Servicer
WB 2024-HQ	Trust and Servicing Agreement	3/21/2024	Servicer
SCG 2024-MSP	Trust and Servicing Agreement	4/15/2024	Master Servicer
DBWF 2024-LCRS	Trust and Servicing Agreement	4/24/2024	Master Servicer
MED 2024-MOB	Trust and Servicing Agreement	5/9/2024	Servicer
SDR 2024-DSNY	Trust and Servicing Agreement	5/15/2024	Servicer
HILT 2024-ORL	Trust and Servicing Agreement	5/23/2024	Servicer
ELM 2024-ELM	Trust and Servicing Agreement	6/6/2024	Servicer
TX TRUST 2024-HOU	Trust and Servicing Agreement	6/14/2024	Servicer
MCR 2024-TWA	Trust and Servicing Agreement	6/20/2024	Servicer
WFCM 2024-SVEN	Trust and Servicing Agreement	6/20/2024	Servicer
JW 2024-MRCO	Trust and Servicing Agreement	6/21/2024	Servicer
WFCM 2024-ICHI	Trust and Servicing Agreement	6/25/2024	Servicer
CALI 2024-SUN	Trust and Servicing Agreement	7/9/2024	Servicer
WFCM 2024-BPRC	Trust and Servicing Agreement	7/15/2024	Servicer
ONNI 2024-APT	Trust and Servicing Agreement	7/18/2024	Servicer
WFCM 2024-MGP	Trust and Servicing Agreement	8/15/2024	Servicer
BX 2024-AIRC	Trust and Servicing Agreement	8/15/2024	Servicer
HYT 2024-RGCY	Trust and Servicing Agreement	8/29/2024	Servicer
LOEWS 2024-MIA	Trust and Servicing Agreement	9/10/2024	Servicer
BX 2024-AIR2	Trust and Servicing Agreement	9/26/2024	Servicer
LV 2024-SHOW	Trust and Servicing Agreement	10/18/2024	Servicer
AHPT 2024-ATRM	Trust and Servicing Agreement	10/23/2024	Servicer
WFCM 2024-GRP	Trust and Servicing Agreement	10/30/2024	Servicer
ROCK 2024-CNTR	Trust and Servicing Agreement	10/30/2024	Servicer
BFLD 2024-UNIV	Trust and Servicing Agreement	11/5/2024	Servicer
BPR 2024-PMDW	Trust and Servicing Agreement	11/1/2024	Servicer
ICNQ 2024-MF	Trust and Servicing Agreement	11/13/2024	Master Servicer
BPR 2024-PARK	Trust and Servicing Agreement	11/15/2024	Servicer
BAMLL 2024-SSPR	Servicing Agreement	12/6/2024	Master Servicer/Special Servicer
BAHA 2024-MAR	Trust and Servicing Agreement	12/5/2024	Servicer
KSL 2024-HT2	Trust and Servicing Agreement	12/17/2024	Servicer
TCO 2024-DPM	Trust and Servicing Agreement	12/18/2024	Servicer
BDS 2024-FL13	Servicing Agreement	9/26/2024	Servicer/Special Servicer
FREMF 2024-Q026	Pooling and Servicing Agreement	7/1/2024	Special Servicer
FREMF 2024-KJ52	Pooling and Servicing Agreement	12/1/2024	Special Servicer
FREMF 2024-K513	Pooling and Servicing Agreement	1/1/2024	Master Servicer
FREMF 2024-K517	Pooling and Servicing Agreement	3/1/2024	Master Servicer
FREMF 2024-K519	Pooling and Servicing Agreement	4/1/2024	Master Servicer
FREMF 2024-K521	Pooling and Servicing Agreement	5/1/2024	Master Servicer
FREMF 2024-KF163	Pooling and Servicing Agreement	7/1/2024	Master Servicer
FREMF 2024-KF164	Pooling and Servicing Agreement	12/1/2024	Master Servicer
Wells Fargo Bank, National Association	Servicing Agreement	3/1/2025	Servicer
AOC II REIT GS, LLC	Servicing Agreement	4/1/2025	Servicer
FPF 9 SUB 10, L.P.	Servicing Agreement	3/1/2025	Servicer
ACP II REIT CONA, LLC	Servicing Agreement	4/1/2025	Servicer
SREDS SQK Real Estate Capital LLC	Servicing Agreement	3/1/2025	Servicer
FPF 9 SUB 1, L.P.	Servicing Agreement	4/1/2025	Servicer
BREDS V US Investments 3 LLC (Project Echo)	Servicing Agreement	7/1/2025	Servicer
BDS V Mortgage Capital LLC	Servicing Agreement	3/1/2025	Servicer
BDS V Mortgage Capital S LLC	Servicing Agreement	4/1/2025	Servicer
BDS III REIT Inc.	Servicing Agreement	6/1/2025	Servicer
BDS V REIT LLC	Servicing Agreement	8/1/2025	Servicer
BDS IV Mortgage Capital M LLC	Servicing Agreement	7/16/2025	Servicer
Big Real Estate Fund III, L.P.	Servicing Agreement	7/1/2025	Servicer
Big Real Estate Investments III, LLC/WF Repo	Servicing Agreement	7/1/2025	Servicer
OWS CFC, LLC	Servicing Agreement	6/5/2025	Servicer
OWS CF D-1 SPV LLC (Cdn)	Servicing Agreement	8/1/2025	Servicer
Master US Private Real Estate	Servicing Agreement	11/1/2025	Servicer
HRCF DLI DB, LLC	Servicing Agreement	9/5/2025	Servicer
HRCF DLI Ctl, LLC	Servicing Agreement	9/1/2025	Servicer
FS CREIT Finance JP-1, LLC	Servicing Agreement	10/1/2025	Servicer
RREF V-D Direct Lending LLC	Servicing Agreement	10/1/2025	Servicer
FRE MIC Finance LP	Servicing Agreement	11/1/2025	Servicer
Mount Street US (Georgia) LLP	Servicing Agreement	11/1/2025	Servicer
FS CREIT Finance CO-1 LLC	Servicing Agreement	11/1/2025	Servicer
Big Real Estate Securities III, LLC	Servicing Agreement	10/1/2025	Servicer

RLCF Properties	Servicing Agreement	2/28/2025	Servicer
MERITZ AIM	Servicing Agreement	4/1/2025	Servicer
OWS CRE Funding III, LLC	Servicing Agreement	8/1/2025	Servicer
WFCM 2025-5C3	Pooling and Servicing Agreement	1/1/2025	Master Servicer
BANK5 2025-5YR13	Pooling and Servicing Agreement	2/1/2025	Master Servicer
WFCM 2025-C64	Pooling and Servicing Agreement	2/1/2025	Master Servicer
HY 2025-SPRL	Trust and Servicing Agreement	1/24/2025	Servicer
NY 2025-299P	Trust and Servicing Agreement	2/13/2025	Servicer
IRV 2025-200P	Trust and Servicing Agreement	2/26/2025	Servicer
NYC 2025-3BP	Trust and Servicing Agreement	2/27/2025	Servicer
FS RIAL 2025-FL10	Servicing Agreement	2/19/2025	Servicer
BANK5 2025-5YR14	Pooling and Servicing Agreement	4/1/2025	Master Servicer
BBCMS 2025-5C34	Pooling and Servicing Agreement	5/1/2025	Master Servicer
WFCM 2025-5C4	Pooling and Servicing Agreement	5/1/2025	Master Servicer
BMARK 2025-V15	Pooling and Servicing Agreement	6/1/2025	Master Servicer
BMO 2025-C12	Pooling and Servicing Agreement	6/1/2025	Master Servicer
BANK 2025-BNK50	Pooling and Servicing Agreement	6/1/2025	General Master Servicer
BANK5 2025-5YR15	Pooling and Servicing Agreement	7/1/2025	Master Servicer
WFCM 2025-5C5	Pooling and Servicing Agreement	7/1/2025	Master Servicer
BBCMS 2025-5C36	Pooling and Servicing Agreement	8/1/2025	Master Servicer
BMARK 2025-V16	Pooling and Servicing Agreement	8/1/2025	Master Servicer
BANK5 2025-5YR16	Pooling and Servicing Agreement	8/1/2025	Master Servicer
BMARK 2025-V17	Pooling and Servicing Agreement	9/1/2025	Master Servicer
WFCM 2025-5C6	Servicing Agreement	10/1/2025	Primary Servicer
BANK5 2025-5YR17	Pooling and Servicing Agreement	10/1/2025	Master Servicer
WFCM 2025-C65	Primary Servicing Agreement	10/1/2025	Primary Servicer
BMARK 2025-V18	Pooling and Servicing Agreement	10/1/2025	Master Servicer
MSBAM 2025-5C2	Pooling and Servicing Agreement	11/1/2025	Master Servicer
BBCMS 2025-5C38	Pooling and Servicing Agreement	11/1/2025	Master Servicer
BANK 2025-BNK49	Primary Servicing Agreement	3/1/2025	Primary Servicer
BANK 2025-BNK51	Primary Servicing Agreement	12/1/2025	Primary Servicer
CRB 2025-CRE1	Pooling and Servicing Agreement	11/1/2025	Master Servicer
BANK5 2025-YR18	Pooling and Servicing Agreement	12/1/2025	Master Servicer
BANK 2025-YR19	Pooling and Servicing Agreement	12/1/2025	Master Servicer
HY 2025-SPRL	Trust and Servicing Agreement	1/24/2025	Servicer
NY 2025-299P	Trust and Servicing Agreement	2/13/2025	Servicer
IRV 2025-200P	Trust and Servicing Agreement	2/26/2025	Servicer
NYC 2025-3BP	Trust and Servicing Agreement	2/27/2025	Servicer
NYC 2025-1155	Trust and Servicing Agreement	5/20/2025	Servicer
RFR 2025-SGRM	Trust and Servicing Agreement	3/1/2025	Servicer
WBRK 2025-WBRK	Trust and Servicing Agreement	3/6/2025	Servicer
AHPT 2025-ATRM	Trust and Servicing Agreement	8/15/2025	Servicer
ALA 2025-OANA	Trust and Servicing Agreement	6/13/2025	Servicer
AOA 2025-1301	Trust and Servicing Agreement	8/1/2025	Servicer
BAMLL 2025-1105W	Trust and Servicing Agreement	12/15/2025	Servicer
BFLD 2025-5MW	Trust and Servicing Agreement	9/30/2025	Servicer
BFLD 2025-660F	Trust and Servicing Agreement	10/31/2025	Servicer
BHMS 2025-ATLS	Trust and Servicing Agreement	8/15/2025	Servicer
BLP 2025-IND	Trust and Servicing Agreement	3/17/2025	Servicer
BPR 2025-STAR	Trust and Servicing Agreement	10/28/2025	Servicer
BRES 2025-ATCAP	Trust and Servicing Agreement	10/29/2025	Servicer
BX 2025-ARIA	Trust and Servicing Agreement	12/30/2025	Servicer/Special Servicer
BX 2025-BCAT	Trust and Servicing Agreement	8/19/2025	Servicer
CHI 2025-110W	Trust and Servicing Agreement	12/15/2025	Servicer
CHI 2025-SFT	Trust and Servicing Agreement	3/27/2025	Servicer
CIP 2025-SBAY	Trust and Servicing Agreement	10/28/2025	Servicer
COMM 2025-180W	Trust and Servicing Agreement	8/5/2025	Master Servicer
CSMC 2022-LION	Servicing Agreement	5/6/2022	Successor Servicer
CSTL 2025-GATE2	Trust and Servicing Agreement	12/12/2025	Servicer
DURST 2025-151	Trust and Servicing Agreement	8/19/2025	Servicer
ESA 2025-ESH	Trust and Servicing Agreement	10/20/2025	Servicer
GSAT 2025-BMF	Trust and Servicing Agreement	7/15/2025	Servicer
INT 2025-PLAZA	Trust and Servicing Agreement	11/5/2025	Servicer
INTOWN 2025-STAY	Trust and Servicing Agreement	3/17/2025	Master Servicer/Special Servicer
KSL 2025-MAK	Trust and Servicing Agreement	6/5/2025	Servicer
KSL 2025-MH1	Trust and Servicing Agreement	12/3/2025	Servicer
MAC 2025-801B	Trust and Servicing Agreement	9/30/2025	Servicer
MAD 2025-11MD	Trust and Servicing Agreement	9/25/2025	Servicer/Special Servicer
MHP 2025-MHIL2	Trust and Servicing Agreement	8/28/2025	Servicer/Special Servicer
PRM 2025-PRM6	Trust and Servicing Agreement	6/24/2025	Servicer/Special Servicer
PRM7 2025-PRM7	Trust and Servicing Agreement	10/17/2025	Servicer
SCG 2025-FLWR	Trust and Servicing Agreement	8/19/2025	Servicer
SCG 2025-SNIP	Trust and Servicing Agreement	9/26/2025	Servicer
STDIO 2025-RLGH	Trust and Servicing Agreement	8/27/2025	Servicer
SYCA 2025-WAG	Trust and Servicing Agreement	11/12/2025	Servicer
VDCM 2025-AZ	Trust and Servicing Agreement	7/10/2025	Servicer
VRTX 2025-HQ	Trust and Servicing Agreement	8/1/2025	Servicer

WBHT 2025-WBM	Trust and Servicing Agreement	6/25/2025	Servicer
WEST 2025-ROSE	Trust and Servicing Agreement	3/1/2025	Servicer
WFCM 2025-1918	Trust and Servicing Agreement	9/11/2025	Servicer
WFCM 2025-AURA	Trust and Servicing Agreement	10/15/2025	Servicer
WFCM 2025-B33RP	Trust and Servicing Agreement	8/21/2025	Servicer
WFCM 2025-DWHP	Trust and Servicing Agreement	4/23/2025	Servicer
WFCM 2025-HI	Trust and Servicing Agreement	9/25/2025	Servicer
WFCM 2025-NYCH	Trust and Servicing Agreement	6/24/2025	Servicer
WFCM 2025-VTT	Trust and Servicing Agreement	3/25/2025	Servicer
BDS 2025-FL14	Servicing Agreement	3/13/2025	Servicer/Special Servicer
BDS 2025-FL15	Servicing Agreement	8/28/2025	Servicer/Special Servicer
BDS 2025-FL16	Servicing Agreement	12/4/2025	Servicer/Special Servicer
BXMT 2025-FL5	Servicing Agreement	3/27/2025	Servicer
FS RIAL 2025-FL10	Servicing Agreement	2/19/2025	Servicer
PPF 2025-12	Servicing Agreement	6/17/2025	Servicer/Special Servicer
STWD 2025-FL4	Servicing Agreement	11/25/2025	Servicer
FREM 2025-K169	Pooling and Servicing Agreement	3/1/2025	Special Servicer
FREM 2025-KF166	Pooling and Servicing Agreement	4/1/2025	Special Servicer
FREM 2025-K541	Pooling and Servicing Agreement	6/1/2025	Special Servicer
FREM 2025-K542	Pooling and Servicing Agreement	6/1/2025	Special Servicer
FREM 2025-Q036	Pooling and Servicing Agreement	9/1/2025	Special Servicer
FREM 2019-KS10	Pooling and Servicing Agreement	2/1/2019	Master/Special Servicer
FREM 2015-K1501	Pooling and Servicing Agreement	7/1/2015	Special Servicer
FREM 2018-K75	Pooling and Servicing Agreement	4/1/2018	Special Servicer
FREM 2020-K117	Pooling and Servicing Agreement	10/13/2020	Special Servicer
FREM 2022-KF136	Pooling and Servicing Agreement	5/20/2022	Special Servicer
FREM 2017-K727	Pooling and Servicing Agreement	9/1/2017	Special Servicer

2025 Annual Statement of Servicer Compliance (Item 1123)

Per the applicable Servicing Agreement for each of the transactions listed on Schedule I hereto, the undersigned, a duly authorized officer of Rialto Capital Advisors, LLC ("Rialto"), in its capacity as special servicer (the "Special Servicer") hereby certifies, as follows and as for the period reflected on Schedule I hereto beginning on January 1, 2025 and ending on December 31, 2025 (the "Reporting Period"):

- a) A review of Rialto Capital Advisors, LLC's activities during the Reporting Period and of its performance under the applicable Servicing Agreement has been made under such officer's supervision; and
- b) To the best of my knowledge, based on such review, Rialto has fulfilled all of its obligations under the applicable Servicing Agreement in all material respects throughout the Reporting Period.

Certified by: /s/ Adam Singer
Adam Singer, Managing Director

Date: March 2, 2026

2025 Rialto Schedule I

Depositor	Transaction	Servicing Agreement Short Name	Servicing Agreement	Servicing Agreement Date	Reporting Period	Exceptions to Coverage	Special Servicer
J.P. Morgan Chase Commercial Mortgage Securities Corp.	J.P. Morgan Chase Commercial Mortgage Securities Trust 2012-C6, Commercial Mortgage Pass-Through Certificates, Series 2012-C6	JPMCC 2012-C6	Pooling and Servicing Agreement	April 1, 2012	January 29, 2025 to August 28, 2025	N/A	Rialto Capital Advisors, LLC
Barclays Commercial Mortgage Securities LLC	BSST 2022-1700 Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2022-1700	BSST 2022-1700	Supplement to Base Trust and Servicing Agreement	February 24, 2022	January 1, 2025 - November 14, 2025	N/A	Rialto Capital Advisors, LLC
J.P. Morgan Chase Commercial Mortgage Securities Corp.	J.P. Morgan Chase Commercial Mortgage Securities Corp., JPMBB Commercial Mortgage Securities Trust 2014-C25 Commercial Mortgage Pass-Through Certificates Series 2014-C25	JPMBB 2014-C25	Pooling and Servicing Agreement	November 1, 2014	January 1, 2025 - December 23, 2025	N/A	Rialto Capital Advisors, LLC
Banc of America Merrill Lynch Commercial Mortgage, Inc.	Bank of America Merrill Lynch Commercial Mortgage Trust 2016-UBS10, Commercial Mortgage Pass-Through Certificates Series 2016-UBS10	BACM 2016-UBS10	Pooling and Servicing Agreement	June 1, 2016	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Banc of America Merrill Lynch Commercial Mortgage, Inc.	Banc of America Merrill Lynch Commercial Mortgage, Inc., Commercial Mortgage Pass-Through Certificates Series 2017-BNK3	BACM 2017-BNK3	Pooling and Servicing Agreement	February 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Banc of America Merrill Lynch Large Loan, Inc.	BAMLL Commercial Mortgage Securities Trust 2022-DK1X, Commercial Mortgage Pass-Through Certificates, Series 2022-DK1X	BAMLL 2022-DK1X	Trust and Servicing Agreement	February 2, 2022	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Wells Fargo Commercial Mortgage Securities, Inc.	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates Series 2017-BNK4	BANK 2017-BNK4	Pooling and Servicing Agreement	April 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Wells Fargo Commercial Mortgage Securities, Inc.	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates Series 2017-BNK7	BANK 2017-BNK7	Pooling and Servicing Agreement	September 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Banc of America Merrill Lynch Commercial Mortgage, Inc.	Banc of America Merrill Lynch Commercial Mortgage, Inc., Commercial Mortgage Pass-Through Certificates Series 2017-BNK9	BANK 2017-BNK9	Pooling and Servicing Agreement	December 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates Series 2018-BNK14	BANK 2018-BNK14	Pooling and Servicing Agreement	September 1, 2018	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Banc of America Merrill Lynch Commercial Mortgage, Inc.	Banc of America Merrill Lynch Commercial Mortgage, Inc., Commercial Mortgage Pass-Through Certificates Series 2019-BNK18	BANK 2019-BNK18	Pooling and Servicing Agreement	May 1, 2019	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Banc of America Merrill Lynch Commercial Mortgage, Inc.	Banc of America Merrill Lynch Commercial Mortgage, Inc., Commercial Mortgage Pass-Through Certificates Series 2019-BNK21	BANK 2019-BNK21	Pooling and Servicing Agreement	October 1, 2019	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Banc of America Merrill Lynch Commercial Mortgage, Inc.	Banc of America Merrill Lynch Commercial Mortgage, Inc., Commercial Mortgage Pass-Through Certificates Series 2020-BNK29	BANK 2020-BNK29	Pooling and Servicing Agreement	November 30, 2020	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates Series 2021-BNK32	BANK 2021-BNK32	Pooling and Servicing Agreement	March 1, 2021	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Banc of America Merrill Lynch Commercial Mortgage, Inc.	Banc of America Merrill Lynch Commercial Mortgage, Inc., Commercial Mortgage Pass-Through Certificates Series 2021-BNK33	BANK 2021-BNK33	Pooling and Servicing Agreement	May 1, 2021	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Banc of America Merrill Lynch Commercial Mortgage, Inc.	Banc of America Merrill Lynch Commercial Mortgage, Inc., Commercial Mortgage Pass-Through Certificates Series 2021-BNK36	BANK 2021-BNK36	Pooling and Servicing Agreement	October 1, 2021	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Commercial Mortgage Pass-Through Certificates Series 2022-BNK41	BANK 2022-BNK41	Pooling and Servicing Agreement	May 1, 2022	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Wells Fargo Commercial Mortgage Securities, Inc.	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates Series 2024-BNK47	BANK 2024-BNK47	Pooling and Servicing Agreement	June 1, 2024	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Wells Fargo Commercial Mortgage Securities, Inc.	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates Series 2024-5YR10	BANK5 2024-5YR10	Pooling and Servicing Agreement	October 1, 2024	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Barclays Commercial Mortgage Securities LLC	Barclays Commercial Mortgage Securities LLC, Commercial Mortgage Pass-Through Certificates Series 2017-C1	BBCMS 2017-C1	Pooling and Servicing Agreement	February 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Barclays Commercial Mortgage Securities LLC	Barclays Commercial Mortgage Securities LLC, BBCMS Mortgage Trust 2019-C4, Commercial Mortgage Pass Through Certificates Series 2019-C4	BBCMS 2019-C4	Pooling and Servicing Agreement	August 1, 2019	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Barclays Commercial Mortgage Securities LLC	Barclays Commercial Mortgage Securities LLC, BBCMS Mortgage Trust 2020-C7, Commercial Mortgage Pass Through Certificates Series 2020-C7	BBCMS 2020-C7	Pooling and Servicing Agreement	June 1, 2020	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Barclays Commercial Mortgage Securities LLC	Barclays Commercial Mortgage Securities LLC, BBCMS Mortgage Trust 2021-C10, Commercial Mortgage Pass Through Certificates Series 2021-C10	BBCMS 2021-C10	Pooling and Servicing Agreement	July 1, 2021	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC

Barclays Commercial Mortgage Securities LLC	BBCMS Mortgage Trust 2022-C15 Commercial Mortgage Pass-Through Certificates Series 2022-C15	BBCMS 2022-C15	Pooling and Servicing Agreement	April 1, 2022	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Barclays Commercial Mortgage Securities LLC	BBCMS Mortgage Trust 2022-C18 Commercial Mortgage Pass-Through Certificates Series 2022-C18	BBCMS 2022-C18	Pooling and Servicing Agreement	December 1, 2022	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Barclays Commercial Mortgage Securities LLC	BBCMS Mortgage Trust 2023-C22 Commercial Mortgage Pass Through Certificates Series 2023-C22	BBCMS 2023-C22	Pooling and Servicing Agreement	November 1, 2023	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Barclays Commercial Mortgage Securities LLC	BBCMS Mortgage Trust 2024-C26 Commercial Mortgage Pass-Through Certificates, Series 2024-C26	BBCMS 2024-C26	Pooling and Servicing Agreement	May 1, 2024	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Barclays Commercial Mortgage Securities LLC	BBCMS Mortgage Trust 2024-C30 Commercial Mortgage Pass-Through Certificates, Series 2024-C30	BBCMS 2024-C30	Pooling and Servicing Agreement	November 1, 2024	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
J.P. Morgan Chase Commercial Mortgage Securities Corp.	J.P. Morgan Chase Commercial Mortgage Securities Corp., Benchmark 2019-B11 Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2019-B11	BMARK 2019-B11	Pooling and Servicing Agreement	June 1, 2019	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Citigroup Commercial Mortgage Securities Inc.	J.P. Morgan Chase Commercial Mortgage Securities Corp., Benchmark 2020-B19 Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2020-B19	BMARK 2020-B19	Pooling and Servicing Agreement	September 1, 2020	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	J.P. Morgan Chase Commercial Mortgage Securities Corp., Benchmark 2020-B22 Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2020-B22	BMARK 2020-B22	Pooling and Servicing Agreement	December 1, 2020	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	Benchmark 2021-B25 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2021-B25	BMARK 2021-B25	Pooling and Servicing Agreement	April 1, 2021	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Citigroup Commercial Mortgage Securities, Inc.	Benchmark 2021-B31 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2021-B31	BMARK 2021-B31	Pooling and Servicing Agreement	December 1, 2021	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	Benchmark 2022-B37 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2022-B37	BMARK 2022-B37	Pooling and Servicing Agreement	October 1, 2022	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Citigroup Commercial Mortgage Securities Inc.	Benchmark 2024-V10 Mortgage Trust Commercial Mortgage Pass-Through Derivatives, Series 2024-V10	BMARK 2024-V10	Pooling and Servicing Agreement	September 1, 2024	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Benchmark 2024-V5 Mortgage Trust Commercial Mortgage Pass-Through Derivatives, Series 2024-V5	BMARK 2024-V5	Pooling and Servicing Agreement	January 1, 2024	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
BMO Commercial Mortgage Securities LLC	BMO 2022-C2 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2022-C2	BMO 2022-C2	Pooling and Servicing Agreement	July 1, 2022	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
BMO Commercial Mortgage Securities LLC	BMO 2023-C5 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2023-C5	BMO 2023-C5	Pooling and Servicing Agreement	June 1, 2023	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
BMO Commercial Mortgage Securities LLC	BMO 2023-C6 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2023-C6	BMO 2023-C6	Pooling and Servicing Agreement	August 1, 2023	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
BMO Commercial Mortgage Securities LLC	BMO 2024-C8 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2024-C8	BMO 2024-C8	Pooling and Servicing Agreement	March 1, 2024	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, CD 2016-CD1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-CD1	CD 2016-CD1	Pooling and Servicing Agreement	August 1, 2016	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, CD 2017-CD4 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-CD4	CD 2017-CD4	Pooling and Servicing Agreement	May 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Citigroup Commercial Mortgage Securities Inc.	Citigroup Commercial Mortgage Securities Inc., Commercial Mortgage Pass-Through Certificates Series 2017-CD5	CD 2017-CD5	Pooling and Servicing Agreement	August 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, CD 2018-CD7 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-CD7	CD 2018-CD7	Pooling and Servicing Agreement	August 1, 2018	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
CCRE Commercial Mortgage Securities, L.P.	CCRE Commercial Mortgage Securities, L.P., CFCRE 2016-C4 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C4	CFCRE 2016-C4	Pooling and Servicing Agreement	May 1, 2016	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
CCRE Commercial Mortgage Securities, L.P.	CCRE Commercial Mortgage Securities, L.P., CFCRE 2016-C6 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C6	CFCRE 2016-C6	Pooling and Servicing Agreement	November 1, 2016	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
CCRE Commercial Mortgage Securities, L.P.	CCRE Commercial Mortgage Securities, L.P., CFCRE 2017-C8 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-C8	CFCRE 2017-C8	Pooling and Servicing Agreement	June 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Citigroup Commercial Mortgage Securities Inc.	Citigroup Commercial Mortgage Securities Inc., Commercial Mortgage Pass-Through Certificates Series 2014-GC23	CGCMT 2014-GC23	Pooling and Servicing Agreement	August 1, 2014	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Citigroup Commercial Mortgage Securities Inc.	Citigroup Commercial Mortgage Securities Inc., Commercial Mortgage Pass-Through Certificates Series 2015-GC27	CGCMT 2015-GC27	Pooling and Servicing Agreement	February 1, 2015	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Citigroup Commercial Mortgage Securities Inc.	Citigroup Commercial Mortgage Securities Inc., Commercial Mortgage Pass-Through Certificates Series 2016-C3	CGCMT 2016-C3	Pooling and Servicing Agreement	November 1, 2016	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Citigroup Commercial Mortgage Securities Inc.	Citigroup Commercial Mortgage Securities Inc., Commercial Mortgage Pass-Through Certificates Series 2017-P7	CGCMT 2017-P7	Pooling and Servicing Agreement	April 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Citigroup Commercial Mortgage Securities Inc.	Citigroup Commercial Mortgage Securities Inc., Citigroup Commercial Mortgage Trust 2019-GC41 Commercial Mortgage Pass-Through Certificates	CGCMT 2019-GC41	Pooling and Servicing Agreement	August 1, 2019	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC

Series 2019-GC41							
Citigroup Commercial Mortgage Securities Inc.	Citigroup Commercial Mortgage Trust 2019-GC43 Commercial Mortgage Pass-Through Certificates Series 2019-GC43	CGCMT 2019-GC43	Pooling and Servicing Agreement	November 1, 2019	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Citigroup Commercial Mortgage Securities, Inc.	Citigroup Commercial Mortgage Trust 2022-GC48, Commercial Mortgage Pass-Through Certificates Series 2022-GC48	CGCMT 2022-GC48	Pooling and Servicing Agreement	June 1, 2022	January 1, 2025 - December 31, 2025	RCA is special servicer as to the Yorkshire & Lexington Towers loan combination only	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, COMM 2012-CCRE4 Commercial Mortgage Pass-Through Certificates	COMM 2012-CCRE4	Pooling and Servicing Agreement	November 1, 2012	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, COMM 2013-LC13 Commercial Mortgage Pass-Through Certificates	COMM 2013-LC13	Pooling and Servicing Agreement	September 1, 2013	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, COMM 2013-LC6 Commercial Mortgage Pass-Through Certificates	COMM 2013-LC6	Pooling and Servicing Agreement	January 1, 2013	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, COMM 2014-CCRE14 Mortgage Trust Commercial Mortgage Pass-Through Certificates	COMM 2014-CCRE14	Pooling and Servicing Agreement	January 1, 2014	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, COMM 2014-CCRE15 Mortgage Trust Commercial Mortgage Pass-Through Certificates	COMM 2014-CCRE15	Pooling and Servicing Agreement	February 1, 2014	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, COMM 2014-CCRE18 Mortgage Trust Commercial Mortgage Pass-Through Certificates	COMM 2014-CCRE18	Pooling and Servicing Agreement	June 1, 2014	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, COMM 2014-LC15 Mortgage Trust Commercial Mortgage Pass-Through Certificates	COMM 2014-LC15	Pooling and Servicing Agreement	March 1, 2014	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, COMM 2015-CCRE27 Mortgage Trust Commercial Mortgage Pass-Through Certificates	COMM 2015-CCRE27	Pooling and Servicing Agreement	October 1, 2015	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, COMM 2015-DC1 Mortgage Trust Commercial Mortgage Pass-Through Certificates	COMM 2015-DC1	Pooling and Servicing Agreement	March 1, 2015	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, COMM 2015-LC21 Mortgage Trust Commercial Mortgage Pass-Through Certificates	COMM 2015-LC21	Pooling and Servicing Agreement	June 1, 2015	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, COMM 2015-PC1 Mortgage Trust Commercial Mortgage Pass-Through Certificates	COMM 2015-PC1	Pooling and Servicing Agreement	July 1, 2015	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, COMM 2019-GC44 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-GC44	COMM 2019-GC44	Pooling and Servicing Agreement	December 1, 2019	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Credit Suisse First Boston Mortgage Securities Corp.	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates Series 2015-C2	CSAIL 2015-C2	Pooling and Servicing Agreement	May 1, 2015	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Credit Suisse First Boston Mortgage Securities Corp.	Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates Series 2015-C3	CSAIL 2015-C3	Pooling and Servicing Agreement	August 1, 2015	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Credit Suisse Commercial Mortgage Securities Corp.	Credit Suisse Commercial Mortgage Securities Corp., CSAIL 2016-C5 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2016-C5	CSAIL 2016-C5	Pooling and Servicing Agreement	February 1, 2016	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Credit Suisse Commercial Mortgage Securities Corp.	Credit Suisse Commercial Mortgage Securities Corp., CSAIL 2016-C7 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2016-C7	CSAIL 2016-C7	Pooling and Servicing Agreement	November 1, 2016	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Credit Suisse Commercial Mortgage Securities Corp.	Credit Suisse Commercial Mortgage Securities Corp., CSAIL 2017-CX9 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2017-CX9	CSAIL 2017-CX9	Pooling and Servicing Agreement	September 1, 2017	January 1, 2025 - December 31, 2025	As of 9/17/25 RCA terminated as SS for JW Marriott loan only	Rialto Capital Advisors, LLC
Credit Suisse Commercial Mortgage Securities Corp.	Credit Suisse Commercial Mortgage Securities Corp., CSAIL 2018-C14 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2018-C14	CSAIL 2018-C14	Pooling and Servicing Agreement	November 1, 2018	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Credit Suisse Commercial Mortgage Securities Corp.	Credit Suisse Commercial Mortgage Securities Corp., CSAIL 2019-C18 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2019-C18	CSAIL 2019-C18	Pooling and Servicing Agreement	December 1, 2019	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Credit Suisse Commercial Mortgage Securities Corp.	Credit Suisse Commercial Mortgage Securities Corp., CSMC 2020-FACT Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2020-FACT	CSMC 2020-FACT	Pooling and Servicing Agreement	October 28, 2020	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Credit Suisse Commercial Mortgage Securities Corp.	Credit Suisse Commercial Mortgage Securities Corp., CSMC 2020-NET Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2020-NET	CSMC 2020-NET	Pooling and Servicing Agreement	August 6, 2020	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Credit Suisse Commercial Mortgage Securities Corp.	CSMC 2022-NWPT, Commercial Mortgage Pass-Through Certificates, Series 2022-NWPT	CSMC 2022-NWPT	Trust and Servicing Agreement	September 21, 2022	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Deutsche Mortgage & Asset Receiving Corporation	Deutsche Mortgage & Asset Receiving Corporation, DBGS 2018-C1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-C1	DBGS 2018-C1	Pooling and Servicing Agreement	October 1, 2018	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Wells Fargo Commercial Mortgage Securities, Inc.	DTP Commercial Mortgage Trust 2023-STE2, Commercial Mortgage Pass-Through Certificates, Series 2023-STE2	DTP 2023-STE2	Trust and Servicing Agreement	December 28, 2023	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
FS RIALTO 2019-FL1 ISSUER, LTD.	FS RIALTO 2019-FL1 ISSUER, LTD. FS RIALTO 2019-FL1 CO-ISSUER, LLC	FSRIA 2019-FL1	Servicing Agreement	December 5, 2019	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
FS RIALTO 2021-FL2 ISSUER, LTD.	FS RIALTO 2021-FL2 ISSUER, LTD. FS RIALTO 2021-FL2 CO-ISSUER, LLC	FSRIA 2021-FL2	Servicing Agreement	May 5, 2021	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC

FS RIALTO 2021-FL3 ISSUER, LTD.	FS RIALTO 2021-FL3	FSRIA 2021-FL3	Servicing Agreement	November 4, 2021	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
FS RIALTO 2022-FL4 ISSUER, LTD.	FS RIALTO 2022-FL4	FSRIA 2022-FL4	Servicing Agreement	March 31, 2022	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
FS RIALTO 2022-FL5 ISSUER, LTD.	FS RIALTO 2022-FL5	FSRIA 2022-FL5	Servicing Agreement	June 16, 2022	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
FS RIALTO 2022-FL6 ISSUER, LTD.	FS RIALTO 2022-FL6	FSRIA 2022-FL6	Servicing Agreement	August 25, 2022	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
FS RIALTO 2022-FL7 ISSUER, LLC	FS RIALTO 2022-FL7	FSRIA 2022-FL7	Servicing Agreement	December 7, 2022	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
FS RIALTO 2024-FL9 ISSUER, LLC	FS RIALTO 2024-FL9	FSRIA 2024-FL9	Servicing Agreement	October 21, 2024	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Greystone Commercial Capital 2021-2 LLC	Greystone Commercial Capital Trust Series 2021-2	GCCTS 2021-2	Servicing Agreement	May 18, 2021	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates Series 2012-GCJ9	GSMS 2012-GCJ9	Pooling and Servicing Agreement	November 1, 2012	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates Series 2013-GCJ12	GSMS 2013-GCJ12	Pooling and Servicing Agreement	May 1, 2013	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates Series 2013-GCJ16	GSMS 2013-GCJ16	Pooling and Servicing Agreement	November 1, 2013	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates Series 2015-GC28	GSMS 2015-GC28	Pooling and Servicing Agreement	February 1, 2015	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	GS Mortgage Securities Corporation II, GS Mortgage Securities Trust 2016-GS3 Commercial Mortgage Pass-Through Certificates Series 2016-GS3	GSMS 2016-GS3	Pooling and Servicing Agreement	September 1, 2016	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	GS Mortgage Securities Corporation II, GS Mortgage Securities Trust 2017-GS5 Commercial Mortgage Pass-Through Certificates Series 2017-GS5	GSMS 2017-GS5	Pooling and Servicing Agreement	March 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	GS Mortgage Securities Corporation II, GS Mortgage Securities Trust 2017-GS7 Commercial Mortgage Pass-Through Certificates Series 2017-GS7	GSMS 2017-GS7	Pooling and Servicing Agreement	August 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	GS Mortgage Securities Corporation II, GS Mortgage Securities Corporation Trust 2018-3PCK Commercial Mortgage Pass-Through Certificates Series 2018-3PCK	GSMS 2018-3PCK	Trust and Servicing Agreement	September 27, 2018	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	GS Mortgage Securities Corporation II, GS Mortgage Securities Trust 2018-GS10 Commercial Mortgage Pass-Through Certificates Series 2018-GS10	GSMS 2018-GS10	Pooling and Servicing Agreement	July 1, 2018	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	GS Mortgage Securities Corporation II, GS Mortgage Securities Trust 2018-GS9 Commercial Mortgage Pass-Through Certificates Series 2018-GS9	GSMS 2018-GS9	Pooling and Servicing Agreement	March 1, 2018	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Inc., ILPT Trust 2019-SURF Commercial Mortgage Pass-Through Certificates, Series 2019-SURF	ILPT 2019-SURF	Trust and Servicing Agreement	March 7, 2019	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
J.P. Morgan Chase Commercial Mortgage Securities Corp.	J.P. Morgan Chase Commercial Mortgage Securities Corp., JPMBB Commercial Mortgage Securities Trust 2014-C23 Commercial Mortgage Pass-Through Certificates Series 2014-C23	JPMBB 2014-C23	Pooling and Servicing Agreement	September 1, 2014	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
J.P. Morgan Chase Commercial Mortgage Securities Corp.	J.P. Morgan Chase Commercial Mortgage Securities Corp., JPMBB Commercial Mortgage Securities Trust 2015-C31 Commercial Mortgage Pass-Through Certificates Series 2015-C31	JPMBB 2015-C31	Pooling and Servicing Agreement	August 1, 2015	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
J.P. Morgan Chase Commercial Mortgage Securities Corp.	J.P. Morgan Chase Commercial Mortgage Securities Trust 2012-LC9 Commercial Mortgage Pass-Through Certificates Series 2012-LC9	JPMCC 2012-LC9	Pooling and Servicing Agreement	December 1, 2012	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
J.P. Morgan Chase Commercial Mortgage Securities Corp.	J.P. Morgan Chase Commercial Mortgage Securities Corp., JPMCC Commercial Mortgage Securities Trust 2017-IP6 Commercial Mortgage Pass-Through Certificates Series 2017-IP6	JPMCC 2017-IP6	Pooling and Servicing Agreement	June 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Wells Fargo Commercial Mortgage Securities, Inc.	JW Commercial Mortgage Trust 2024-MRCO, Commercial Mortgage Pass-Through Certificates, Series 2024-MRCO	JW 2024-MRCO	Trust and Servicing Agreement	June 21, 2024	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates Series 2012-C5	MSBAM 2012-C5	Pooling and Servicing Agreement	July 1, 2012	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Inc., Morgan Stanley Bank of America Merrill Lynch Trust 2013-C13, Commercial Mortgage Pass-Through Certificates Series 2013-C13	MSBAM 2013-C13	Pooling and Servicing Agreement	December 1, 2013	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Inc., Morgan Stanley Bank of America Merrill Lynch Trust 2014-C14, Commercial Mortgage Pass-Through Certificates Series 2014-C14	MSBAM 2014-C14	Pooling and Servicing Agreement	February 1, 2014	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Inc., Morgan Stanley Bank of America Merrill Lynch Trust 2014-C17, Commercial Mortgage Pass-Through Certificates Series 2014-C17	MSBAM 2014-C17	Pooling and Servicing Agreement	August 1, 2014	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Inc., Morgan Stanley Bank of America Merrill Lynch Trust 2014-C18, Commercial Mortgage Pass-Through Certificates Series 2014-C18	MSBAM 2014-C18	Pooling and Servicing Agreement	September 1, 2014	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC

Morgan Stanley Capital I Inc.	Morgan Stanley Bank of America Merrill Lynch Trust 2014-C19, Commercial Mortgage Pass-Through Certificates Series 2014-C19	MSBAM 2014-C19	Pooling and Servicing Agreement	December 1, 2014	January 1, 2025 - December 31, 2025	Line Lic Loan Pair excluded	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Inc., Morgan Stanley Bank of America Merrill Lynch Trust 2015-C20, Commercial Mortgage Pass-Through Certificates Series 2015-C20	MSBAM 2015-C20	Pooling and Servicing Agreement	January 1, 2015	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Inc., Morgan Stanley Bank of America Merrill Lynch Trust 2016-C29, Commercial Mortgage Pass-Through Certificates Series 2016-C29	MSBAM 2016-C29	Pooling and Servicing Agreement	May 1, 2016	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Banc of America Merrill Lynch Commercial Mortgage, Inc.	Banc of America Merrill Lynch Commercial Mortgage, Inc., Morgan Stanley Bank of America Merrill Lynch Trust 2016-C31, Commercial Mortgage Pass-Through Certificates Series 2016-C31	MSBAM 2016-C31	Pooling and Servicing Agreement	November 1, 2016	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Inc., Commercial Mortgage Pass-Through Certificates Series 2011-C3	MSC 2011-C3	Pooling and Servicing Agreement	October 1, 2011	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Trust 2015-UBS8, Commercial Mortgage Pass-Through Certificates Series 2015-UBS8	MSCI 2015-UBS8	Pooling and Servicing Agreement	December 1, 2015	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Trust 2016-UBS12, Commercial Mortgage Pass-Through Certificates Series 2016-UBS12	MSCI 2016-UBS12	Pooling and Servicing Agreement	December 1, 2016	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Trust 2019-L2, Commercial Mortgage Pass-Through Certificates Series 2019-L2	MSCI 2019-L2	Pooling and Servicing Agreement	March 1, 2019	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Trust 2024-NSTB, Commercial Mortgage Pass-Through Certificates Series 2024-NSTB	MSC 2024-NSTB	Pooling and Servicing Agreement	September 27, 2024	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
RIAL 2022-FL8 ISSUER, LTD.	RIAL 2022-FL8	RIAL 2022-FL8	Servicing Agreement	May 20, 2022	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Barclays Commercial Mortgage Securities LLC	SCG 2023-NASH Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2023-NASH	SCG 2023-NASH	Trust and Servicing Agreement	November 29, 2023	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
SG Commercial Mortgage Securities, LLC	SG Commercial Mortgage Securities, LLC, Commercial Mortgage Pass-Through Certificates Series 2016-C5	SGCMS 2016-C5	Pooling and Servicing Agreement	July 1, 2016	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Barclays Commercial Mortgage Securities LLC	SPGN 2022-TFLM Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2022-TFLM	SPGN 2022-TFLM	Trust and Servicing Agreement	February 25, 2022	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
UBS Commercial Mortgage Securitization Corp.	TMSQ 2014-1500 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2014-1500	TMSQ 2014-1500	Trust and Servicing Agreement	October 10, 2014	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
UBS Commercial Mortgage Securitization Corp.	UBS Commercial Mortgage Securitization Corp., UBS-Barclays Commercial Mortgage Trust 2012-C3, Commercial Mortgage Pass-Through Certificates, Series 2012-C3	UBS-Barclays 2012-C3	Pooling and Servicing Agreement	September 1, 2012	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
UBS Commercial Mortgage Securitization Corp.	UBS Commercial Mortgage Securitization Corp., UBS-Barclays Commercial Mortgage Trust 2012-C4, Commercial Mortgage Pass-Through Certificates, Series 2012-C4	UBS-Barclays 2012-C4	Pooling and Servicing Agreement	December 1, 2012	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Barclays Commercial Mortgage Securities LLC	Barclays Commercial Mortgage Securities LLC, UBS-Barclays Commercial Mortgage Trust 2013-C6, Commercial Mortgage Pass-Through Certificates, Series 2013-C6	UBS-Barclays 2013-C6	Pooling and Servicing Agreement	April 1, 2013	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Citigroup Commercial Mortgage Securities Inc.	Citigroup Commercial Mortgage Securities Inc., UBS-Citigroup Commercial Mortgage Trust 2011-C1, Commercial Mortgage Pass-Through Certificates, Series 2011-C1	UBS-Citigroup 2011-C1	Pooling and Servicing Agreement	December 1, 2011	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
UBS Commercial Mortgage Securitization Corp.	UBS Commercial Mortgage Securitization Corp., UBS Commercial Mortgage Trust 2012-C1, Commercial Mortgage Pass-Through Certificates, Series 2012-C1	UBSCM 2012-C1	Pooling and Servicing Agreement	May 1, 2012	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
UBS Commercial Mortgage Securitization Corp.	UBS Commercial Mortgage Securitization Corp., Commercial Mortgage Pass-Through Certificates Series 2017-C1	UBSCM 2017-C1	Pooling and Servicing Agreement	June 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
UBS Commercial Mortgage Securitization Corp.	UBS Commercial Mortgage Securitization Corp., Commercial Mortgage Pass-Through Certificates Series 2017-C4	UBSCM 2017-C4	Pooling and Servicing Agreement	October 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
UBS Commercial Mortgage Securitization Corp.	UBS Commercial Mortgage Securitization Corp., Commercial Mortgage Pass-Through Certificates Series 2017-C6	UBSCM 2017-C6	Pooling and Servicing Agreement	December 1, 2017	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
UBS Commercial Mortgage Securitization Corp.	UBS Commercial Mortgage Securitization Corp., Commercial Mortgage Pass-Through Certificates Series 2018-C10	UBSCM 2018-C10	Pooling and Servicing Agreement	May 1, 2018	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
UBS Commercial Mortgage Securitization Corp.	UBS Commercial Mortgage Securitization Corp., Commercial Mortgage Pass-Through Certificates Series 2018-C14	UBSCM 2018-C14	Pooling and Servicing Agreement	December 1, 2018	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
UBS Commercial Mortgage Securitization Corp.	UBS Commercial Mortgage Securitization Corp., Commercial Mortgage Pass-Through Certificates Series 2018-C9	UBSCM 2018-C9	Pooling and Servicing Agreement	March 1, 2018	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
UBS Commercial Mortgage Securitization Corp.	UBS Commercial Mortgage Securitization Corp., Commercial Mortgage Pass-Through Certificates Series 2019-C17	UBSCM 2019-C17	Pooling and Servicing Agreement	October 1, 2019	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
UBS Commercial Mortgage Securitization Corp.	UBS Commercial Mortgage Securitization Corp., Commercial Mortgage Pass-Through Certificates Series 2019-C18	UBSCM 2019-C18	Pooling and Servicing Agreement	December 1, 2019	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Wells Fargo Commercial Mortgage Securities, Inc.	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates Series 2013-LC12	WFCM 2013-LC12	Pooling and Servicing Agreement	July 1, 2013	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Wells Fargo Commercial Mortgage Securities, Inc.	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates Series 2014-LC18	WFCM 2014-LC18	Pooling and Servicing Agreement	December 1, 2014	January 1, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC

J.P. Morgan Chase Commercial Mortgage Securities Corp.	JPMBB Commercial Mortgage Securities Trust 2014-C21, Commercial Mortgage Pass-Through Certificates, Series 2014-C21	JPMBB 2014-C21	Pooling and Servicing Agreement	July 1, 2014	January 29, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
J.P. Morgan Chase Commercial Mortgage Securities Corp.	JPMDB Commercial Mortgage Securities Trust 2016-C4, Commercial Mortgage Pass-Through Certificates, Series 2016-C4	JPMDB 2016-C4	Pooling and Servicing Agreement	November 1, 2016	January 29, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
FS RIALTO 2025-FL10 ISSUER, LLC	FS RIALTO 2025-FL10	FSRIA 2025-FL10	Servicing Agreement	February 19, 2025	February 19, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Wells Fargo Commercial Mortgage Securities, Inc.	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates Series 2025-C64	WFCM 2025-C64	Pooling and Servicing Agreement	February 1, 2025	February 22, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Bank of America Merrill Lynch Commercial Mortgage, Inc.	Bank of America Merrill Lynch Commercial Mortgage, Inc., Commercial Mortgage Pass-Through Certificates Series 2025-BNK49	BANK 2025-BNK49	Pooling and Servicing Agreement	March 1, 2025	March 27, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	BWAY Trust 2025-1535, Commercial Mortgage Pass-Through Certificates, Series 2025-1535	BWAY 2025-1535	Trust and Servicing Agreement	April 24, 2025	April 24, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	Morgan Stanley Capital I Inc., Morgan Stanley Bank of America Merrill Lynch Trust 2013-C12, Commercial Mortgage Pass-Through Certificates Series 2013-C12	MSBAM 2013-C12	Pooling and Servicing Agreement	October 1, 2013	April 29, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Morgan Stanley Capital I Inc.	BX Trust 2021-VIEW, Commercial Mortgage Pass-Through Certificates, Series 2021-VIEW	BX 2021-VIEW	Trust and Servicing Agreement	June 15, 2021	May 2, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
BMO Commercial Mortgage Securities LLC	BMO 2025-5C10 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2025-5C10	BMO 2025-5C10	Pooling and Servicing Agreement	May 1, 2025	May 16, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Wells Fargo Commercial Mortgage Securities, Inc.	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates Series 2025-5C4	WFCM 2025-5C4	Pooling and Servicing Agreement	May 1, 2025	May 29, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
BMO Commercial Mortgage Securities LLC	BMO 2025-C12 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2025-C12	BMO 2025-C12	Pooling and Servicing Agreement	June 1, 2025	June 12, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	Benchmark 2025-V15 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2025-V15	BMARK 2025-V15	Pooling and Servicing Agreement	June 1, 2025	June 12, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
GS Mortgage Securities Corporation II	MILE Trust 2025-STNE, Commercial Mortgage Pass-Through Certificates, Series 2025-STNE	MILE 2025-STNE	Trust and Servicing Agreement	July 15, 2025	July 15, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Wells Fargo Commercial Mortgage Securities, Inc.	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates Series 2025-5C6	WFCM 2025-5C6	Pooling and Servicing Agreement	October 1, 2025	October 8, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
BMO Commercial Mortgage Securities LLC	BMO 2025-C13 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2025-C13	BMO 2025-C13	Pooling and Servicing Agreement	October 1, 2025	October 22, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Barclays Commercial Mortgage Securities LLC	BBCMS Mortgage Trust 2025-5C38 Commercial Mortgage Pass-Through Certificates, Series 2025-5C38	BBCMS 2025-5C38	Pooling and Servicing Agreement	November 1, 2025	November 25, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
CRB CM Depositor LLC	CRB Commercial Mortgage Trust 2025-1 Commercial Mortgage Pass-Through Certificates, Series CRB 2025-CRE1	CRB 2025-CRE1	Pooling and Servicing Agreement	November 1, 2025	December 2, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC
Wells Fargo Commercial Mortgage Securities, Inc.	Wells Fargo Commercial Mortgage Securities, Inc., Commercial Mortgage Pass-Through Certificates Series 2025-BNK51	BANK 2025-BNK51	Pooling and Servicing Agreement	December 1, 2025	December 23, 2025 - December 31, 2025	N/A	Rialto Capital Advisors, LLC

Annual Statement of Compliance

On November 1, 2021, Wells Fargo Bank, N.A. and certain of its affiliates sold substantially all its Corporate Trust Services business to Computershare Trust Company, N.A. ("Computershare Trust Company"), Computershare Delaware Trust Company, and Computershare Limited. During the calendar year ending December 31, 2025, for most transactions listed on Schedule I hereto, Wells Fargo Bank, N.A. did not transfer its roles, and the duties, rights, and liabilities for such roles for such transactions to Computershare Trust Company or an affiliate and performed virtually all of its obligations through Computershare Trust Company as its agent. During the calendar year ending December 31, 2025, for the remaining transactions listed on Schedule I hereto, Wells Fargo Bank, N.A. transferred its roles, and the duties, rights and liabilities for such roles under the relevant transaction agreements to Computershare Trust Company (the "2025 Transferred Role(s) Transactions"). Prior to the date of transfer for the 2025 Transferred Role(s) Transactions, Wells Fargo Bank, N.A. remained in the related role and performed virtually all its obligations through Computershare Trust Company as its agent. On and after the date of transfer for the 2025 Transferred Role(s) Transactions, Computershare Trust Company assumed the roles under the related agreements for such transactions. For each transaction listed thereon, Schedule I hereto identifies the Reporting Period for which Wells Fargo Bank, N.A. remained in the related role (performing virtually all its obligations through Computershare Trust Company as its agent). Computershare Trust Company's obligations as agent for Wells Fargo Bank, N.A. are set forth in a servicing agreement between the parties.

For each transaction and the applicable Servicing Agreement listed and described on Schedule I hereto, the undersigned, a duly authorized officer of Wells Fargo Bank, N.A., in its applicable capacity(ies) as listed on Schedule I ("Wells Fargo"), hereby certifies either (i) as of and for the year ending December 31, 2025 (the "Full-Year Reporting Period") or (ii) as of and for the portion of the Full-Year Reporting Period as set forth under the "Reporting Period" column on Schedule I hereto, (the "Partial-Year Reporting Period", together with the Full-Year Reporting Period, the "Reporting Period"), in each case as applicable, as follows:

- (a) A review of Wells Fargo's activities during the Reporting Period and of its performance under the applicable Servicing Agreement, including a review of the activities and performance of its agent Computershare Trust Company during the Reporting Period, has been made under such officer's supervision; and
- (b) To the best of such officer's knowledge, based on such review, Wells Fargo, either directly, or through its agent Computershare Trust Company, has fulfilled all its obligations under the applicable Servicing Agreement in all material respects throughout the Reporting Period.

February 23, 2026

/s/ Melissa Turcios
Melissa Turcios
Vice President

/s/ Robin A. Phelan
Robin A. Phelan
Vice President

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Schedule I:

3650 REIT Commercial Mortgage Securities II LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
3650R 2021-PF1 Commercial Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2021-PF1	Pooling and Servicing Agreement	11/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025

Arbor Private Label Depositor, LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
Arbor Multifamily Mortgage Securities Trust 2021-MF2 Multifamily Mortgage Pass-Through Certificates Series 2021-MF2	Pooling and Servicing Agreement	06/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
Arbor Multifamily Mortgage Securities Trust 2021-MF3 Multifamily Mortgage Pass-Through Certificates Series 2021-MF3	Pooling and Servicing Agreement	10/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025

Bank of America Merrill Lynch Commercial Mortgage Inc./Bank of America Merrill Lynch Large Loan, Inc.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
Morgan Stanley Bank of America Merrill Lynch Trust 2013-C11, Commercial Mortgage Pass-Through Certificates, Series 2013-C11	Pooling and Servicing Agreement	08/01/2013	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2016-C28, Commercial Mortgage Pass-Through Certificates, Series 2016-C28	Pooling and Servicing Agreement	02/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Bank of America Merrill Lynch Commercial Mortgage Trust 2016-UBS10, Commercial Mortgage Pass-Through Certificates, Series 2016-UBS10	Pooling and Servicing Agreement	06/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
BAMLL Commercial Mortgage Securities Trust 2016-ISQR, Commercial Mortgage Pass-Through Certificates, Series 2016-ISQR	Trust and Servicing Agreement	08/17/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2016-C31, Commercial Mortgage Pass-Through Certificates, Series 2016-C31	Pooling and Servicing Agreement	11/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2016-C32, Commercial Mortgage Pass-Through Certificates, Series 2016-C32	Pooling and Servicing Agreement	12/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Bank of America Merrill Lynch Commercial Mortgage Trust 2017-BNK3, Commercial Mortgage Pass-Through Certificates, Series 2017-BNK3	Pooling and Servicing Agreement	02/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
Del Amo Fashion Center Trust 2017-AMO Commercial Mortgage Pass-Through Certificates, Series 2017-AMO	Trust and Servicing Agreement	06/20/2017	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2017-BNK6 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK6	Pooling and Servicing Agreement	07/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2017-C34, Commercial Mortgage Pass-Through Certificates, Series 2017-C34	Pooling and Servicing Agreement	10/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2017-BNK9 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK9	Pooling and Servicing Agreement	12/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2018-BNK12 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK12	Pooling and Servicing Agreement	05/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2018-BNK15 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK15	Pooling and Servicing Agreement	11/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2019-BNK18 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK18	Pooling and Servicing Agreement	05/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2019-BNK21 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK21	Pooling and Servicing Agreement	10/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025

Jackson Park Trust 2019-LIC, Commercial Mortgage Pass-Through Certificates, Series 2019-LIC	Trust and Servicing Agreement	11/15/2019	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2019-BNK24 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK24	Pooling and Servicing Agreement	12/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
BAMLL Commercial Mortgage Securities Trust 2020-BOC, Commercial Mortgage Pass-Through Certificates, Series 2020-BOC	Trust and Servicing Agreement	02/27/2020	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2020-BNK27 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK27	Pooling and Servicing Agreement	06/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
BAMLL Commercial Mortgage Securities Trust 2020-BHP3, Commercial Mortgage Pass-Through Certificates, Series 2020-BHP3	Trust and Servicing Agreement	11/05/2020	Certificate Administrator	01/01/2025 - 03/17/2025
Grace Trust 2020-GRCE Commercial Mortgage Pass-Through Certificates, Series 2020-GRCE	Trust and Servicing Agreement	11/18/2020	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2020-BNK30 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK30	Pooling and Servicing Agreement	12/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2021-BNK33 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK33	Pooling and Servicing Agreement	05/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2021-BNK36 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK36	Pooling and Servicing Agreement	10/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025

Barclays Commercial Mortgage Securities LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
BBCMS 2016-ETC Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-ETC	Trust and Servicing Agreement	08/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2017-C1 Commercial Mortgage Pass-Through Certificates, Series 2017-C1	Pooling and Servicing Agreement	02/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
BBCMS 2018-CHRS Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-CHRS	Trust and Servicing Agreement	08/09/2018	Certificate Administrator	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2018-C2 Commercial Mortgage Pass-Through Certificates, Series 2018-C2	Pooling and Servicing Agreement	12/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2019-C3 Commercial Mortgage Pass-Through Certificates, Series 2019-C3	Pooling and Servicing Agreement	06/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
MFTH 2019-B3B4 Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-B3B4	Trust and Servicing Agreement	07/11/2019	Certificate Administrator	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2019-C4 Commercial Mortgage Pass-Through Certificates, Series 2019-C4	Pooling and Servicing Agreement	08/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2019-C5 Commercial Mortgage Pass-Through Certificates, Series 2019-C5	Pooling and Servicing Agreement	11/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
MBCD 2019-PARK Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-PARK	Trust and Servicing Agreement	12/19/2019	Certificate Administrator	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2020-C6 Commercial Mortgage Pass-Through Certificates, Series 2020-C6	Pooling and Servicing Agreement	02/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
MKT 2020-525M Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2020-525M	Trust and Servicing Agreement	02/26/2020	Certificate Administrator	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2020-C7 Commercial Mortgage Pass-Through Certificates, Series 2020-C7	Pooling and Servicing Agreement	06/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2020-C8 Commercial Mortgage Pass-Through Certificates, Series 2020-C8	Pooling and Servicing Agreement	10/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2021-C9 Commercial Mortgage Pass-Through Certificates Series 2021-C9	Pooling and Servicing Agreement	03/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2021-C10 Commercial Mortgage Pass-Through Certificates Series 2021-C10	Pooling and Servicing Agreement	07/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2021-C11 Commercial Mortgage Pass-Through Certificates, Series 2021-C11	Pooling and Servicing Agreement	09/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025

CCRE Commercial Mortgage Securities, L.P.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
CFCRE 2016-C3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C3	Pooling and Servicing Agreement	01/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
CFCRE 2016-C6 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C6	Pooling and Servicing Agreement	11/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
CFCRE 2016-C7 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C7	Pooling and Servicing Agreement	12/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
CFCRE 2017-C8 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-C8	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025

CFK Trust 2019-FAX, Commercial Mortgage Pass-Through Certificates, Series 2019-FAX	Trust and Servicing Agreement	02/06/2019	Certificate Administrator	01/01/2025 - 12/31/2025
CF 2019-CF3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-CF3	Pooling and Servicing Agreement	12/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025

Citigroup Commercial Mortgage Securities Inc.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
Citigroup Commercial Mortgage Trust 2016-GC36, Commercial Mortgage Pass-Through Certificates, Series 2016-GC36	Pooling and Servicing Agreement	02/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
CD 2017-CD3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-CD3	Pooling and Servicing Agreement	02/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025

Credit Suisse Commercial Mortgage Securities Corp./Credit Suisse First Boston Mortgage Securities Corp.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C1	Pooling and Servicing Agreement	03/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C2	Pooling and Servicing Agreement	05/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C3	Pooling and Servicing Agreement	08/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C4	Pooling and Servicing Agreement	11/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2016-C5 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C5	Pooling and Servicing Agreement	02/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2016-C6 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C6	Pooling and Servicing Agreement	05/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2016-C7 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C7	Pooling and Servicing Agreement	11/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
CSMC 2016-NXSR Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-NXSR	Pooling and Servicing Agreement	12/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2017-C8 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-C8	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2017-CX9 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-CX9	Pooling and Servicing Agreement	09/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2017-CX10 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-CX10	Pooling and Servicing Agreement	11/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2018-CX11 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-CX11	Pooling and Servicing Agreement	04/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2018-CX12 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-CX12	Pooling and Servicing Agreement	08/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2018-C14 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-C14	Pooling and Servicing Agreement	11/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2019-C15 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C15	Pooling and Servicing Agreement	03/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2019-C16 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C16	Pooling and Servicing Agreement	06/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2019-C17 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C17	Pooling and Servicing Agreement	09/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2019-C18 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C18	Pooling and Servicing Agreement	12/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
CSMC 2019-LVIL Commercial Mortgage Pass-Through Certificates, Series 2019-LVIL	Trust and Servicing Agreement	12/06/2019	Certificate Administrator	01/01/2025 - 12/31/2025
CSMC 2020-WEST Commercial Mortgage Pass-Through Certificates, Series 2020-WEST	Trust and Servicing Agreement	02/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2020-C19 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2020-C19	Pooling and Servicing Agreement	03/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
CSAIL 2021-C20 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2021-C20	Pooling and Servicing Agreement	03/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025

Deutsche Mortgage & Asset Receiving Corporation

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
COMM 2012-CCRE4 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	11/01/2012	Certificate Administrator	01/01/2025 - 12/31/2025

COMM 2013-CCRE12 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	11/01/2013	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2014-CCRE15 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	02/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2014-CCRE16 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	04/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2014-UBS3 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	06/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2014-LC17 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	09/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
COMM2014-UBS5 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	09/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2014-CCRE20 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	10/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2014-CCRE21 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	12/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2014-UBS6 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	12/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2015-LC19 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	02/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2015-DC1 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	03/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2015-CCRE23 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	05/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2015-PC1 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	07/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
MAD 2015-11MD Mortgage Trust, Commercial Mortgage Pass-Through Certificates	Trust and Servicing Agreement	09/06/2015	Certificate Administrator	01/01/2025 - 10/10/2025
COMM 2015-CCRE26 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	10/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2015-CCRE27 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	10/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2015-LC23 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	11/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2016-CCRE28 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-CCRE28	Pooling and Servicing Agreement	02/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
DBJPM 2016-C1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C1	Pooling and Servicing Agreement	04/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
CD 2016-CD1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-CD1	Pooling and Servicing Agreement	08/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
DBJPM 2016-C3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C3	Pooling and Servicing Agreement	08/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Hudson Yards 2016- 10HY Mortgage Trust Commercial Mortgage Pass-Through Certificates	Trust and Servicing Agreement	08/06/2016	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2016-COR1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-COR1	Pooling and Servicing Agreement	10/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2016-467M Mortgage Trust Commercial Mortgage Pass-Through Certificates	Trust and Servicing Agreement	10/06/2016	Certificate Administrator	01/01/2025 - 12/31/2025
CD 2016-CD2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-CD2	Pooling and Servicing Agreement	12/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
CD 2017-CD4 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-CD4	Pooling and Servicing Agreement	05/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
Olympic Tower 2017- OT Mortgage Trust Commercial Mortgage Pass-Through Certificates	Trust and Servicing Agreement	05/06/2017	Certificate Administrator	01/01/2025 - 12/31/2025
DBJPM 2017-C6 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-C6	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2017-COR2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-COR2	Pooling and Servicing Agreement	09/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
CD 2017-CD6 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-CD6	Pooling and Servicing Agreement	11/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2018-B1 Mortgage Trust Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	01/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2018-COR3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-COR3	Pooling and Servicing Agreement	05/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2018-HOME Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-HOME	Pooling and Servicing Agreement	06/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2018-B4 Mortgage Trust Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	07/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
CD 2018-CD7 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-CD7	Pooling and Servicing Agreement	08/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025

DBGS 2018-C1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-C1	Pooling and Servicing Agreement	10/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2018-B7 Mortgage Trust Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	11/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2019-B10 Mortgage Trust Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	04/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
Hudson Yards 2019- 30HY Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Hudson Yards 2019-30HY Mortgage Trust	Trust and Servicing Agreement	07/06/2019	Certificate Administrator	01/01/2025 - 12/31/2025
CD 2019-CD8 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-CD8	Pooling and Servicing Agreement	08/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2019-B13 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-B13	Pooling and Servicing Agreement	10/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
CPTS 2019-CPT Mortgage Trust Commercial Mortgage Pass-Through Certificates	Trust and Servicing Agreement	11/09/2019	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2019-GC44 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-GC44	Pooling and Servicing Agreement	12/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2020-B16 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B16	Pooling and Servicing Agreement	02/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2020-IG2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020- IG2	Pooling and Servicing Agreement	05/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2020-B18 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B18	Pooling and Servicing Agreement	07/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
DBPM 2020-C9 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-C9	Pooling and Servicing Agreement	08/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
MOFT 2020-B6 Mortgage Trust Commercial Mortgage Pass-Through Certificates	Trust and Servicing Agreement	08/06/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Manhattan West 2020-1MW Mortgage Trust Commercial Mortgage Pass-Through Certificates	Trust and Servicing Agreement	08/28/2020	Certificate Administrator	01/01/2025 - 12/31/2025
COMM 2020-CX Mortgage Trust Commercial Mortgage Pass-Through Certificates	Trust and Servicing Agreement	11/05/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2020-B22 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B22	Pooling and Servicing Agreement	12/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2021-B26 Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2021-B26	Pooling and Servicing Agreement	05/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2021-B30 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2021-B30	Pooling and Servicing Agreement	11/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
CAMB 2021-CX2 Mortgage Trust Commercial Mortgage Pass-Through Certificates	Trust and Servicing Agreement	11/09/2021	Certificate Administrator	01/01/2025 - 12/31/2025

GS Mortgage Securities Corporation II

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2014-GC22	Pooling and Servicing Agreement	06/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2014-GC24	Pooling and Servicing Agreement	09/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2015-GC23	Pooling and Servicing Agreement	02/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2015-GC32	Pooling and Servicing Agreement	07/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Corporation II, Commercial Mortgage Pass-Through Certificates, Series 2015-GS1	Pooling and Servicing Agreement	11/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Corporation Trust 2015-590M, Commercial Mortgage Pass-Through Certificates, Series 2015-590M	Trust and Servicing Agreement	11/10/2015	Certificate Administrator	01/01/2025 - 09/12/2025
GS Mortgage Securities Trust 2016-GS2 Commercial Mortgage Pass-Through Certificates, Series 2016- GS2	Pooling and Servicing Agreement	05/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2016-GS3 Commercial Mortgage Pass-Through Certificates, Series 2016- GS3	Pooling and Servicing Agreement	09/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2016-GS4 Commercial Mortgage Pass-Through Certificates, Series 2016- GS4	Pooling and Servicing Agreement	11/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
VNDO Trust 2016-350P Commercial Mortgage Pass-Through Certificates, Series 2016- 350P	Trust and Servicing Agreement	12/06/2016	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2017-GS5 Commercial Mortgage Pass-Through Certificates, Series 2017- GS5	Pooling and Servicing Agreement	03/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025

GS Mortgage Securities Trust 2017-GS6 Commercial Mortgage Pass Through Certificates, Series 2017-GS6	Pooling and Servicing Agreement	05/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2017-GS7 Commercial Mortgage Pass-Through Certificates Series 2017-GS7	Pooling and Servicing Agreement	08/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2017-GS8 Commercial Mortgage Pass-Through Certificates Series 2017-GS8	Pooling and Servicing Agreement	11/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
Worldwide Plaza Trust 2017- WWP Commercial Mortgage Pass-Through Certificates, Series 2017-WWP	Trust and Servicing Agreement	11/10/2017	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Corporation Trust 2017-FARM Commercial Mortgage Pass-Through Certificates, Series 2017-FARM	Trust and Servicing Agreement	12/29/2017	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2018-GS9 Commercial Mortgage Pass-Through Certificates, Series 2018-GS9	Pooling and Servicing Agreement	03/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2018-GS10 Commercial Mortgage Pass-Through Certificates, Series 2018-GS10	Pooling and Servicing Agreement	07/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2019-GC38 Commercial Mortgage Pass-Through Certificates, Series 2019-GC38	Pooling and Servicing Agreement	02/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
CALL Mortgage Trust 2019-101C Commercial Mortgage Pass-Through Certificates, Series 2019-101C	Trust and Servicing Agreement	03/06/2019	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2019-GC39 Commercial Mortgage Pass-Through Certificates, Series 2019-GC39	Pooling and Servicing Agreement	05/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2019-GC40 Commercial Mortgage Pass-Through Certificates, Series 2019-GC40	Pooling and Servicing Agreement	07/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2019-GC42 Commercial Mortgage Pass-Through Certificates, Series 2019-GC42	Pooling and Servicing Agreement	09/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2019-GSA1 Commercial Mortgage Pass-Through Certificates, Series 2019-GSA1	Pooling and Servicing Agreement	11/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
BWAY Trust 2019-1633 Commercial Mortgage Pass-Through Certificates, Series 2019-1633	Trust and Servicing Agreement	12/20/2019	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2020-GC45 Commercial Mortgage Pass-Through Certificates, Series 2020-GC45	Pooling and Servicing Agreement	01/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2020-GC47 Commercial Mortgage Pass-Through Certificates, Series 2020-GC47	Pooling and Servicing Agreement	05/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2020-B21 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B21	Pooling and Servicing Agreement	11/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2020-GSA2 Commercial Mortgage Pass-Through Certificates Series 2020-GSA2	Pooling and Servicing Agreement	12/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2021-B25 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2021-B25	Pooling and Servicing Agreement	04/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2021-B29 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2021-B29	Pooling and Servicing Agreement	09/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025

J.P. Morgan Chase Commercial Mortgage Securities Corp.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
J.P. Morgan Chase Commercial Mortgage Securities Trust 2012-C6, Commercial Mortgage Pass-Through Certificates, Series 2012-C6	Pooling and Servicing Agreement	04/01/2012	Certificate Administrator	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-C10, Commercial Mortgage Pass-Through Certificates, Series 2013-C10	Pooling and Servicing Agreement	03/01/2013	Certificate Administrator, Trustee	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-1C11, Commercial Mortgage Pass-Through Certificates, Series 2013-1C11	Pooling and Servicing Agreement	05/01/2013	Certificate Administrator, Trustee	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2013-C12, Commercial Mortgage Pass-Through Certificates, Series 2013-C12	Pooling and Servicing Agreement	06/01/2013	Certificate Administrator, Trustee	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-C13, Commercial Mortgage Pass-Through Certificates, Series 2013-C13	Pooling and Servicing Agreement	07/01/2013	Certificate Administrator, Trustee	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2013-C14, Commercial Mortgage Pass-Through Certificates, Series 2013-C14	Pooling and Servicing Agreement	08/01/2013	Certificate Administrator, Trustee	01/01/2025 - 12/31/2025

JPMBB Commercial Mortgage Securities Trust 2014-C18, Commercial Mortgage Pass-Through Certificates, Series 2014-C18	Pooling and Servicing Agreement	02/01/2014	Certificate Administrator, Trustee	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2014-C20, Commercial Mortgage Pass-Through Certificates, Series 2014-C20	Pooling and Servicing Agreement	06/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2014-C21, Commercial Mortgage Pass-Through Certificates, Series 2014-C21	Pooling and Servicing Agreement	07/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2014-C22, Commercial Mortgage Pass-Through Certificates, Series 2014-C22	Pooling and Servicing Agreement	08/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2014-C23, Commercial Mortgage Pass-Through Certificates, Series 2014-C23	Pooling and Servicing Agreement	09/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2014-C24, Commercial Mortgage Pass-Through Certificates, Series 2014-C24	Pooling and Servicing Agreement	10/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2014-C25, Commercial Mortgage Pass-Through Certificates, Series 2014-C25	Pooling and Servicing Agreement	11/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2014-C26, Commercial Mortgage Pass-Through Certificates, Series 2014-C26	Pooling and Servicing Agreement	12/01/2014	Certificate Administrator, Trustee	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2015-C27, Commercial Mortgage Pass-Through Certificates, Series 2015-C27	Pooling and Servicing Agreement	02/01/2015	Certificate Administrator, Trustee	01/01/2025 - 12/31/2025
Houston Galleria Mall Trust 2015-HGLR, Commercial Mortgage Securities Pass-Through Certificates, Series 2015-HGLR	Trust and Servicing Agreement	03/30/2015	Certificate Administrator	01/01/2025 - 02/06/2025
JPMBB Commercial Mortgage Securities Trust 2015-C28, Commercial Mortgage Pass-Through Certificates, Series 2015-C28	Pooling and Servicing Agreement	04/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2015-C29, Commercial Mortgage Pass-Through Certificates, Series 2015-C29	Pooling and Servicing Agreement	06/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2015-C30, Commercial Mortgage Pass-Through Certificates, Series 2015-C30	Pooling and Servicing Agreement	07/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-WFG	Pooling and Servicing Agreement	07/24/2015	Certificate Administrator	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2015-C31, Commercial Mortgage Pass-Through Certificates, Series 2015-C31	Pooling and Servicing Agreement	08/01/2015	Certificate Administrator, Trustee	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2015-C32, Commercial Mortgage Pass-Through Certificates, Series 2015-C32	Pooling and Servicing Agreement	10/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2015-C33, Commercial Mortgage Pass-Through Certificates, Series 2015-C33	Pooling and Servicing Agreement	11/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2016-C1, Commercial Mortgage Pass-Through Certificates Series 2016-C1	Pooling and Servicing Agreement	03/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Palisades Center Trust 2016-PLSD Commercial Mortgage Pass-Through Certificates, Series 2016-PLSD	Trust and Servicing Agreement	04/29/2016	Certificate Administrator	01/01/2025 - 10/16/2025
JPMBB Commercial Mortgage Securities Trust 2016-C2, Commercial Mortgage Pass-Through Certificates, Series 2016-C2	Pooling and Servicing Agreement	05/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2016-JP2, Commercial Mortgage Pass-Through Certificates Series 2016-JP2	Pooling and Servicing Agreement	07/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Shops at Crystals Trust 2016-CSTL, Commercial Mortgage Pass-Through Certificates, Series 2016-CSTL	Trust and Servicing Agreement	07/20/2016	Certificate Administrator	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2016-JP3, Commercial Mortgage Pass-Through Certificates, Series 2016-JP3	Pooling and Servicing Agreement	09/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2016-NINE, Commercial Mortgage Pass-Through Certificates, Series 2016-NINE	Trust and Servicing Agreement	09/26/2016	Certificate Administrator	01/01/2025 - 12/31/2025

JPMDB Commercial Mortgage Securities Trust 2016-C4 Commercial Mortgage Pass-Through Certificates, Series 2016-C4	Pooling and Servicing Agreement	11/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Hilton USA Trust 2016-HHV Commercial Mortgage Pass-Through Certificates, Series 2016-HHV	Trust and Servicing Agreement	11/28/2016	Certificate Administrator	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2016-JP4 Commercial Mortgage Pass-Through Certificates, Series 2016-JP4	Pooling and Servicing Agreement	12/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2017-JP5 Commercial Mortgage Pass-Through Certificates, Series 2017-JP5	Pooling and Servicing Agreement	03/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2017-C5 Commercial Mortgage Pass-Through Certificates, Series 2017-C5	Pooling and Servicing Agreement	03/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
245 Park Avenue Trust 2017-245P Commercial Mortgage Pass-Through Certificates, Series 2017-245P	Trust and Servicing Agreement	05/30/2017	Certificate Administrator	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2017-JP6 Commercial Mortgage Pass-Through Certificates, Series 2017-JP6	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2017-JP7 Commercial Mortgage Pass-Through Certificates, Series 2017-JP7	Pooling and Servicing Agreement	07/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2017-C7 Commercial Mortgage Pass-Through Certificates Series 2017-C7	Pooling and Servicing Agreement	10/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2018-B2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-B2	Pooling and Servicing Agreement	02/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2018-C8 Commercial Mortgage Pass-Through Certificates, Series 2018-C8	Pooling and Servicing Agreement	06/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
Aventura Mall Trust 2018-AVM Commercial Mortgage Pass-Through Certificates, Series 2018-AVM	Trust and Servicing Agreement	06/29/2018	Certificate Administrator	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2018-AON Commercial Mortgage Pass-Through Certificates, Series 2018-AON	Trust and Servicing Agreement	06/29/2018	Certificate Administrator	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2018-WPT Commercial Mortgage Pass-Through Certificates, Series 2018-WPT	Trust and Servicing Agreement	07/31/2018	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2018-B5 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-B5	Pooling and Servicing Agreement	08/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2018-B8 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-B8	Pooling and Servicing Agreement	12/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2019-COR4 Commercial Mortgage Pass-Through Certificates, Series 2019-COR4	Pooling and Servicing Agreement	02/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-ICON Commercial Mortgage Pass-Through Certificates, Series 2019-ICON	Pooling and Servicing Agreement	04/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-ICON UES Commercial Mortgage Pass-Through Certificates, Series 2019-ICON UES	Trust and Servicing Agreement	05/16/2019	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2019-B11 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-B11	Pooling and Servicing Agreement	06/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-OSB Commercial Mortgage Pass-Through Certificates, Series 2019-OSB	Trust and Servicing Agreement	06/13/2019	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2019-B14 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-B14	Pooling and Servicing Agreement	11/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2019-COR6 Commercial Mortgage Pass-Through Certificates Series 2019-COR6	Pooling and Servicing Agreement	11/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2020-IG1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-IG1	Pooling and Servicing Agreement	02/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-LDOP Commercial Mortgage Pass-Through Certificates, Series 2020-LDOP	Trust and Servicing Agreement	02/05/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2020-B17 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B17	Pooling and Servicing Agreement	03/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-NNN Commercial Mortgage Pass-Through Certificates, Series 2020-NNN	Trust and Servicing Agreement	03/05/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2020-IG3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-IG3	Pooling and Servicing Agreement	05/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025

JPMDB Commercial Mortgage Securities Trust 2020-COR7, Commercial Mortgage Pass-Through Certificates, Series 2020-COR7	Pooling and Servicing Agreement	06/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2020-B20 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B20	Pooling and Servicing Agreement	10/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2021-B24 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2021-B24	Pooling and Servicing Agreement	03/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2021-410F Commercial Mortgage Pass-Through Certificates, Series 2021-410F	Trust and Servicing Agreement	03/12/2021	Certificate Administrator	01/01/2025 - 12/31/2025
Benchmark 2021-B28 Mortgage Trust Commercial Mortgage Pass Through Certificates, Series 2021-B28	Pooling and Servicing Agreement	08/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
KREST Commercial Mortgage Securities Trust 2021-CHIP, Commercial Mortgage Pass-Through Certificates, Series 2021-CHIP	Trust and Servicing Agreement	08/24/2021	Certificate Administrator	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2021-IMEM Commercial Mortgage Pass-Through Certificates, Series 2021-IMEM	Trust and Servicing Agreement	10/14/2021	Certificate Administrator	01/01/2025 - 12/31/2025

Ladder Capital Commercial Mortgage Securities, LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
LCCM 2017-LC26 Mortgage Trust Commercial Mortgage Pass Through Certificates, Series 2017-LC26	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025

LSTAR Depositor, LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
LSTAR Commercial Mortgage Trust 2017-5, Commercial Mortgage Pass-Through Certificates, Series 2017-5	Amended and Restated Pooling & Servicing Agreement	11/30/2018	Certificate Administrator	01/01/2025 - 12/31/2025

Morgan Stanley Capital I Inc.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
Morgan Stanley Bank of America Merrill Lynch Trust 2012-C6, Commercial Mortgage Pass-Through Certificates, Series 2012-C6	Pooling and Servicing Agreement	10/01/2012	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2013-C9, Commercial Mortgage Pass-Through Certificates, Series 2013-C9	Pooling and Servicing Agreement	05/01/2013	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2013-C10, Commercial Mortgage Pass-Through Certificates, Series 2013-C10	Pooling and Servicing Agreement	07/01/2013	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2013-C12, Commercial Mortgage Pass-Through Certificates, Series 2013-C12	Pooling and Servicing Agreement	10/01/2013	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2014-C19, Commercial Mortgage Pass-Through Certificates, Series 2014-C19	Pooling and Servicing Agreement	12/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C20, Commercial Mortgage Pass-Through Certificates, Series 2015-C20	Pooling and Servicing Agreement	01/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C21, Commercial Mortgage Pass-Through Certificates, Series 2015-C21	Pooling and Servicing Agreement	02/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C22, Commercial Mortgage Pass-Through Certificates, Series 2015-C22	Pooling and Servicing Agreement	04/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
MSCCG Trust 2015-ALDR, Commercial Mortgage Pass-Through Certificates, Series 2015-ALDR	Trust and Servicing Agreement	05/05/2015	Certificate Administrator	01/01/2025 - 06/09/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C23, Commercial Mortgage Pass-Through Certificates, Series 2015-C23	Pooling and Servicing Agreement	06/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2015-MS1, Commercial Mortgage Pass-Through Certificates, Series 2015-MS1	Pooling and Servicing Agreement	07/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C24, Commercial Mortgage Pass-Through Certificates, Series 2015-C24	Pooling and Servicing Agreement	08/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C26, Commercial Mortgage Pass-Through Certificates, Series 2015-C26	Pooling and Servicing Agreement	11/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C27, Commercial Mortgage Pass-Through Certificates, Series 2015-C27	Pooling and Servicing Agreement	11/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025

Morgan Stanley Capital I Trust 2015-UBSS, Commercial Mortgage Pass-Through Certificates, Series 2015-UBSS	Pooling and Servicing Agreement	12/01/2015	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2016-PSQ Commercial Mortgage Pass-Through Certificates, Series 2016-PSQ	Trust and Servicing Agreement	02/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2016-UBS9 Commercial Mortgage Pass-Through Certificates, Series 2016-UBS9	Pooling and Servicing Agreement	03/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2016-C29, Commercial Mortgage Pass-Through Certificates Series 2016-C29	Pooling and Servicing Agreement	05/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2016-UBS11, Commercial Mortgage Pass-Through Certificates Series 2016-UBS11	Pooling and Servicing Agreement	08/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2016-C30 Commercial Mortgage Pass-Through Certificates, Series 2016-C30	Pooling and Servicing Agreement	09/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2016-BNK2, Commercial Mortgage Pass Through Certificates, Series 2016-BNK2	Pooling and Servicing Agreement	11/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2016-UBS12, Commercial Mortgage Pass-Through Certificates Series 2016-UBS12	Pooling and Servicing Agreement	12/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2017-C33, Commercial Mortgage Pass-Through Certificates Series 2017-C33	Pooling and Servicing Agreement	05/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2017-BNK5 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK5	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2017-H1 Commercial Mortgage Pass-Through Certificates, Series 2017-H1	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator, Trustee	01/01/2025 - 12/31/2025
BXP Trust 2017-GM, Commercial Mortgage Pass-Through Certificates, Series 2017-GM	Trust and Servicing Agreement	06/09/2017	Certificate Administrator	01/01/2025 - 12/31/2025
BXP Trust 2017-CC Commercial Mortgage Pass-Through Certificates, Series 2017-CC	Trust and Servicing Agreement	08/09/2017	Certificate Administrator	01/01/2025 - 12/31/2025
MSSG Trust 2017-237P, Commercial Mortgage Pass-Through Certificates, Series 2017-237P	Trust and Servicing Agreement	08/09/2017	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2017-BNK8 Commercial Mortgage Pass Through Certificates Series 2017-BNK8	Pooling and Servicing Agreement	11/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2017-HR2 Commercial Mortgage Pass-Through Certificates, Series 2017-HR2	Pooling and Servicing Agreement	12/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2018-BNK11 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK11	Pooling and Servicing Agreement	04/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2018-H3, Commercial Mortgage Pass-Through Certificates, Series 2018-H3	Pooling and Servicing Agreement	07/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2018-MP Commercial Mortgage Pass-Through Certificates, Series 2018-MP	Trust and Servicing Agreement	08/07/2018	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2018-BNK14 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK14	Pooling and Servicing Agreement	09/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2018-L1 Commercial Mortgage Pass-Through Certificates, Series 2018-L1	Pooling and Servicing Agreement	10/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2018-H4 Commercial Mortgage Pass-Through Certificates, Series 2018-H4	Pooling and Servicing Agreement	12/01/2018	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2019-L2 Commercial Mortgage Pass-Through Certificates, Series 2019-L2	Pooling and Servicing Agreement	03/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
ILPT Trust 2019-SURF Commercial Mortgage Pass-Through Certificates, Series 2019-SURF	Trust and Servicing Agreement	03/07/2019	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2019-BNK17 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK17	Pooling and Servicing Agreement	04/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2019-H6 Commercial Mortgage Pass-Through Certificates, Series 2019-H6	Pooling and Servicing Agreement	06/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2019-H7 Commercial Mortgage Pass-Through Certificates, Series 2019-H7	Pooling and Servicing Agreement	07/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2019-BNK20 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK20	Pooling and Servicing Agreement	09/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2019-L3 Commercial Mortgage Pass-Through Certificates, Series 2019-L3	Pooling and Servicing Agreement	11/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2019-BNK23 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK23	Pooling and Servicing Agreement	12/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025

BX Trust 2019-OC11 Commercial Mortgage Pass-Through Certificates, Series 2019-OC11	Trust and Servicing Agreement	12/01/2019	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2020-L4 Commercial Mortgage Pass-Through Certificates, Series 2020-L4	Pooling and Servicing Agreement	02/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2020-BNK26 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK26	Pooling and Servicing Agreement	03/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2020-CNP Commercial Mortgage Pass-Through Certificates, Series 2020-CNP	Trust and Servicing Agreement	05/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2020-HRS Commercial Mortgage Pass-Through Certificates, Series 2020-HRS	Pooling and Servicing Agreement	07/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2020-BNK29 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK29	Pooling and Servicing Agreement	11/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2021-BNK32 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK32	Pooling and Servicing Agreement	03/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2021-L5 Commercial Mortgage Pass-Through Certificates Series 2021-L5	Pooling and Servicing Agreement	05/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2021-L6 Commercial Mortgage Pass-Through Certificates Series 2021-L6	Pooling and Servicing Agreement	07/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2021-BNK35 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK35	Pooling and Servicing Agreement	08/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2021-L7 Commercial Mortgage Pass-Through Certificates Series 2021-L7	Pooling and Servicing Agreement	10/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025

Natixis Commercial Mortgage Securities LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
Natixis Commercial Mortgage Securities Trust 2017-75B Commercial Mortgage Pass-Through Certificates, Series 2017-75B	Trust and Servicing Agreement	05/01/2017	Certificate Administrator	01/01/2025 - 12/31/2025
Natixis Commercial Mortgage Securities Trust 2018-ALXA Commercial Mortgage Pass-Through Certificates, Series 2018-ALXA	Trust and Servicing Agreement	02/23/2018	Certificate Administrator	01/01/2025 - 12/31/2025
Natixis Commercial Mortgage Securities Trust 2018-OSS Commercial Mortgage Pass Through Certificates Series 2018-OSS	Trust and Servicing Agreement	02/27/2018	Certificate Administrator	01/01/2025 - 12/31/2025
20 Times Square Trust 2018-20TS Commercial Mortgage Pass-Through Certificates, Series 2018-20TS	Trust and Servicing Agreement	05/23/2018	Certificate Administrator	01/01/2025 - 12/31/2025
Natixis Commercial Mortgage Securities Trust 2019-NEMA Commercial Mortgage Pass-Through Certificates, Series 2019-NEMA	Trust and Servicing Agreement	03/29/2019	Certificate Administrator	01/01/2025 - 12/31/2025
Natixis Commercial Mortgage Securities Trust 2019-LVL Commercial Mortgage Pass-Through Certificates, Series 2019-LVL	Trust and Servicing Agreement	04/23/2019	Certificate Administrator	01/01/2025 - 12/31/2025
Natixis Commercial Mortgage Securities Trust 2019-10K Commercial Mortgage Pass-Through Certificates, Series 2019-10K	Trust and Servicing Agreement	06/04/2019	Certificate Administrator	01/01/2025 - 12/31/2025
Natixis Commercial Mortgage Securities Trust 2019-FAME Commercial Mortgage Pass-Through Certificates, Series 2019-FAME	Trust and Servicing Agreement	09/04/2019	Certificate Administrator	01/01/2025 - 12/31/2025

RBS Commercial Funding Inc.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
RBS Commercial Funding Inc. Commercial Mortgage Pass-Through Certificates, Series 2013-C11	Pooling and Servicing Agreement	02/01/2013	Certificate Administrator	01/01/2025 - 12/31/2025
RBS Commercial Funding Inc. Commercial Mortgage Pass-Through Certificates, Series 2013-C15	Pooling and Servicing Agreement	08/01/2013	Certificate Administrator	01/01/2025 - 12/31/2025
RBS Commercial Funding Inc. Commercial Mortgage Pass-Through Certificates, Series 2014-C21	Pooling and Servicing Agreement	08/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
RBS Commercial Funding Inc. Commercial Mortgage Pass-Through Certificates, Series 2014-C23	Pooling and Servicing Agreement	09/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025
RBS Commercial Funding Inc. Commercial Mortgage Pass-Through Certificates, Series 2014-C25	Pooling and Servicing Agreement	12/01/2014	Certificate Administrator	01/01/2025 - 12/31/2025

SG Commercial Mortgage Securities, LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Reporting Period
SG Commercial Mortgage Securities LLC Commercial Mortgage Pass-Through Certificates, Series 2016-C5	Pooling and Servicing Agreement	07/01/2016	Certificate Administrator	01/01/2025 - 12/31/2025

Wells Fargo Commercial Mortgage Trust 2020-C57 Commercial Mortgage Pass-Through Certificates, Series 2020-C57	Pooling and Servicing Agreement	08/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2020-BNK28 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK28	Pooling and Servicing Agreement	09/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
Wells Fargo Commercial Mortgage Trust 2020-C58 Commercial Mortgage Pass-Through Certificates, Series 2020-C58	Pooling and Servicing Agreement	12/01/2020	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2021-BNK31 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK31	Pooling and Servicing Agreement	02/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
Wells Fargo Commercial Mortgage Trust 2021-C59 Commercial Mortgage Pass-Through Certificates, Series 2021-C59	Pooling and Servicing Agreement	05/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
BANK 2021-BNK34 Commercial Mortgage Pass-Through Certificates Series 2021-BNK34	Pooling and Servicing Agreement	06/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025
Wells Fargo Commercial Mortgage Trust 2021-C60 Commercial Mortgage Pass-Through Certificates, Series 2021-C60	Pooling and Servicing Agreement	07/01/2021	Certificate Administrator	01/01/2025 - 12/31/2025

Annual Statement of Compliance

For each transaction and the applicable Servicing Agreement listed and described on Schedule I hereto, the undersigned, a duly authorized officer of Computershare Trust Company, N.A. (the "Company"), in its applicable capacity(ies) as listed on Schedule I ("Computershare"), hereby certifies either (i) as of and for the period of January 1, 2025 through December 31, 2025 (the "Full-Year Reporting Period"), or (ii) as of and for the portion of the Full-Year Reporting Period as set forth under the "Reporting Period" column on Schedule I hereto (the "Partial-Year Reporting Period", together with the Full-Year Reporting Period, the "Reporting Period") in each case, as applicable, as follows:

- (a) A review of Computershare's activities during the Reporting Period and of its performance under the applicable Servicing Agreement has been made under such officer's supervision; and
- (b) To the best of such officer's knowledge, based on such review, Computershare has fulfilled all of the obligations it is required to perform as agent for Wells Fargo under the applicable Servicing Agreement in all material respects throughout the Reporting Period.

February 23, 2026

/s/ Kristen Ann Cronin
 Kristen Ann Cronin
 Senior Vice President

/s/ Stephanie White
 Stephanie White
 Assistant Secretary

[1] On November 1, 2021, the Company, Computershare Delaware Trust Company and Computershare Limited purchased substantially all of the Corporate Trust Services business of Wells Fargo Bank, N.A. ("Wells Fargo"). For the transactions listed on Schedule I hereto and for the related Reporting Period, Wells Fargo remained in the related roles under the Servicing Agreements and the Company performed virtually all of Wells Fargo's obligations under the Servicing Agreements as Wells Fargo's agent. The Company's obligations as agent for Wells Fargo are set forth in a servicing agreement between the parties. For transactions with a Full-Year Reporting Period on Schedule I, the Company served as agent for Wells Fargo for the Full-Year Reporting Period. For transactions with a Partial-Year Reporting Period on Schedule I (if any), the Company served as agent for Wells Fargo only for the period set forth on Schedule I. To the extent that Wells Fargo transferred the related role(s) under a Servicing Agreement to the Company at the end of a Partial-Year Reporting Period, the Company has provided a separate annual statement of compliance that covers the Company's activities under the related Servicing Agreement for the portion of the Full-Year Reporting Period after the transfer.

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Schedule I:

3650 REIT Commercial Mortgage Securities II LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
3650R 2021-PF1 Commercial Mortgage Trust Commercial Mortgage Pass-Through Certificates Series 2021-PF1	Pooling and Servicing Agreement	11/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

Arbor Private Label Depositor, LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
Arbor Multifamily Mortgage Securities Trust 2021-MF2 Multifamily Mortgage Pass-Through Certificates Series 2021-MF2	Pooling and Servicing Agreement	06/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Arbor Multifamily Mortgage Securities Trust 2021-MF3 Multifamily Mortgage Pass-Through Certificates Series 2021-MF3	Pooling and Servicing Agreement	10/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

Bank of America Merrill Lynch Commercial Mortgage Inc./Bank of America Merrill Lynch Large Loan, Inc.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
Morgan Stanley Bank of America Merrill Lynch Trust 2013-C11 Commercial Mortgage Pass-Through Certificates, Series 2013-C11	Pooling and Servicing Agreement	08/01/2013	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2016-C28 Commercial Mortgage Pass-Through Certificates, Series 2016-C28	Pooling and Servicing Agreement	02/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Bank of America Merrill Lynch Commercial Mortgage Trust 2016-UBS10 Commercial Mortgage Pass-Through Certificates, Series 2016-UBS10	Pooling and Servicing Agreement	06/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BAMLE Commercial Mortgage Securities Trust 2016-ISQR Commercial Mortgage Pass-Through Certificates, Series 2016-ISQR	Trust and Servicing Agreement	08/17/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2016-C31 Commercial Mortgage Pass-Through Certificates, Series 2016-C31	Pooling and Servicing Agreement	11/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2016-C32 Commercial Mortgage Pass-Through Certificates, Series 2016-C32	Pooling and Servicing Agreement	12/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Bank of America Merrill Lynch Commercial Mortgage Trust 2017-BNK3 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK3	Pooling and Servicing Agreement	02/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Del Amo Fashion Center Trust 2017-AMO Commercial Mortgage Pass-Through Certificates, Series 2017-AMO	Trust and Servicing Agreement	06/20/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2017-BNK6 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK6	Pooling and Servicing Agreement	07/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2017-C34 Commercial Mortgage Pass-Through Certificates, Series 2017-C34	Pooling and Servicing Agreement	10/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

BANK 2017-BNK9 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK9	Pooling and Servicing Agreement	12/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2018-BNK12 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK12	Pooling and Servicing Agreement	05/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2018-BNK15 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK15	Pooling and Servicing Agreement	11/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2019-BNK18 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK18	Pooling and Servicing Agreement	05/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2019-BNK21 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK21	Pooling and Servicing Agreement	10/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Jackson Park Trust 2019-LLC, Commercial Mortgage Pass-Through Certificates, Series 2019-LLC	Trust and Servicing Agreement	11/15/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2019-BNK24 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK24	Pooling and Servicing Agreement	12/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BAMLL Commercial Mortgage Securities Trust 2020-BOC, Commercial Mortgage Pass-Through Certificates, Series 2020-BOC	Trust and Servicing Agreement	02/27/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2020-BNK27 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK27	Pooling and Servicing Agreement	06/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BAMLL Commercial Mortgage Securities Trust 2020-BHP3, Commercial Mortgage Pass-Through Certificates, Series 2020-BHP3	Trust and Servicing Agreement	11/05/2020	Certificate Administrator	Agent	01/01/2025 - 03/17/2025
Grace Trust 2020- GRCE Commercial Mortgage Pass- Through Certificates, Series 2020-GRCE	Trust and Servicing Agreement	11/18/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2020-BNK30 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK30	Pooling and Servicing Agreement	12/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2021-BNK33 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK33	Pooling and Servicing Agreement	05/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2021-BNK36 Commercial Mortgage Pass-Through Certificates, Series 2021-BNK36	Pooling and Servicing Agreement	10/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

Barclays Commercial Mortgage Securities LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
BBCMS 2016-ETC Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-ETC	Trust and Servicing Agreement	08/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2017-C1 Commercial Mortgage Pass-Through Certificates, Series 2017-C1	Pooling and Servicing Agreement	02/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BBCMS 2018-CHRS Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-CHRS	Trust and Servicing Agreement	08/09/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2018-C2 Commercial Mortgage Pass-Through Certificates, Series 2018-C2	Pooling and Servicing Agreement	12/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2019-C3 Commercial Mortgage Pass-Through Certificates, Series 2019-C3	Pooling and Servicing Agreement	06/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
MFTII 2019-B3B4 Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-B3B4	Trust and Servicing Agreement	07/11/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2019-C4 Commercial Mortgage Pass-Through Certificates, Series 2019-C4	Pooling and Servicing Agreement	08/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2019-C5 Commercial Mortgage Pass-Through Certificates, Series 2019-C5	Pooling and Servicing Agreement	11/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
MRCO 2019-PARK Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-PARK	Trust and Servicing Agreement	12/19/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2020-C6 Commercial Mortgage Pass-Through Certificates, Series 2020-C6	Pooling and Servicing Agreement	02/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
MKT 2020-S25M Mortgage Trust, Commercial Mortgage Pass- Through Certificates, Series 2020-S25M	Trust and Servicing Agreement	02/26/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

BBCMS Mortgage Trust 2020-C7 Commercial Mortgage Pass-Through Certificates, Series 2020-C7	Pooling and Servicing Agreement	06/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2020-C8 Commercial Mortgage Pass-Through Certificates, Series 2020-C8	Pooling and Servicing Agreement	10/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2021-C9 Commercial Mortgage Pass-Through Certificates Series 2021-C9	Pooling and Servicing Agreement	03/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2021-C10 Commercial Mortgage Pass Through Certificates Series 2021-C10	Pooling and Servicing Agreement	07/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BBCMS Mortgage Trust 2021-C11 Commercial Mortgage Pass-Through Certificates, Series 2021-C11	Pooling and Servicing Agreement	09/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

CCRE Commercial Mortgage Securities, L.P.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
CFCRE 2016-C3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C3	Pooling and Servicing Agreement	01/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CFCRE 2016-C6 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C6	Pooling and Servicing Agreement	11/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CFCRE 2016-C7 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C7	Pooling and Servicing Agreement	12/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CFCRE 2017-C8 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-C8	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CFK Trust 2019-FAX, Commercial Mortgage Pass-Through Certificates, Series 2019-FAX	Trust and Servicing Agreement	02/06/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CF 2019-CF3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-CF3	Pooling and Servicing Agreement	12/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

Citigroup Commercial Mortgage Securities Inc.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
Citigroup Commercial Mortgage Trust 2016-GC36, Commercial Mortgage Pass-Through Certificates, Series 2016-GC36	Pooling and Servicing Agreement	02/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CD 2017-CD3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-CD3	Pooling and Servicing Agreement	02/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

Credit Suisse Commercial Mortgage Securities Corp./Credit Suisse First Boston Mortgage Securities Corp.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C1	Pooling and Servicing Agreement	03/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C2	Pooling and Servicing Agreement	05/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C3	Pooling and Servicing Agreement	08/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Credit Suisse First Boston Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-C4	Pooling and Servicing Agreement	11/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2016-C5 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C5	Pooling and Servicing Agreement	02/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2016-C6 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C6	Pooling and Servicing Agreement	05/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2016-C7 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-C7	Pooling and Servicing Agreement	11/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSMC 2016-NXSR Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2016-NXSR	Pooling and Servicing Agreement	12/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

CSAIL 2017-C8 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-C8	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2017-CX9 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-CX9	Pooling and Servicing Agreement	09/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2017-CX10 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2017-CX10	Pooling and Servicing Agreement	11/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2018-CX11 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-CX11	Pooling and Servicing Agreement	04/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2018-CX12 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-CX12	Pooling and Servicing Agreement	08/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2018-C14 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2018-C14	Pooling and Servicing Agreement	11/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2019-C15 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C15	Pooling and Servicing Agreement	03/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2019-C16 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C16	Pooling and Servicing Agreement	06/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2019-C17 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C17	Pooling and Servicing Agreement	09/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2019-C18 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2019-C18	Pooling and Servicing Agreement	12/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSMC 2019-LV1L Commercial Mortgage Pass-Through Certificates, Series 2019-LV1L	Trust and Servicing Agreement	12/06/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSMC 2020-WEST Commercial Mortgage Pass-Through Certificates, Series 2020-WEST	Trust and Servicing Agreement	02/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2020-C19 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates, Series 2020-C19	Pooling and Servicing Agreement	03/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CSAIL 2021-C20 Commercial Mortgage Trust, Commercial Mortgage Pass-Through Certificates Series 2021-C20	Pooling and Servicing Agreement	03/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

Deutsche Mortgage & Asset Receiving Corporation

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
COMM 2012-CCRE4 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	11/01/2012	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2013-CCRE12 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	11/01/2013	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2014-CCRE15 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	02/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2014-CCRE16 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	04/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2014-UBS3 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	06/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2014-LC17 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	09/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM2014-UBS5 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	09/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2014-CCRE20 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	10/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2014-CCRE21 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	12/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2014-UBS6 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	12/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2015-LC19 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	02/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2015-DC1 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	03/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2015-CCRE23 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	05/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2015-PC1 Commercial Mortgage Pass-Through Certificates	Pooling and Servicing Agreement	07/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

MAD 2015-11MD Mortgage Trust Commercial Mortgage Pass- Through Certificates	Trust and Servicing Agreement	09/06/2015	Certificate Administrator	Agent	01/01/2025 - 10/10/2025
COMM 2015-CCRE26 Commercial Mortgage Pass- Through Certificates	Pooling and Servicing Agreement	10/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2015-CCRE27 Commercial Mortgage Pass- Through Certificates	Pooling and Servicing Agreement	10/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2015-LC23 Commercial Mortgage Pass- Through Certificates	Pooling and Servicing Agreement	11/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2016-CCRE28 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-CCRE28	Pooling and Servicing Agreement	02/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
DBJPM 2016-C1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C1	Pooling and Servicing Agreement	04/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CD 2016-CD1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-CD1	Pooling and Servicing Agreement	08/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
DBJPM 2016-C3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-C3	Pooling and Servicing Agreement	08/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Hudson Yards 2016-10HY Mortgage Trust Commercial Mortgage Pass- Through Certificates	Trust and Servicing Agreement	08/06/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2016-COR1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-COR1	Pooling and Servicing Agreement	10/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2016-667M Mortgage Trust Commercial Mortgage Pass- Through Certificates	Trust and Servicing Agreement	10/06/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CD 2016-CD2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2016-CD2	Pooling and Servicing Agreement	12/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CD 2017-CD4 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-CD4	Pooling and Servicing Agreement	05/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Olympic Tower 2017- OT Mortgage Trust Commercial Mortgage Pass- Through Certificates	Trust and Servicing Agreement	05/06/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
DBJPM 2017-C6 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-C6	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2017-COR2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-COR2	Pooling and Servicing Agreement	09/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CD 2017-CD6 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2017-CD6	Pooling and Servicing Agreement	11/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2018- B1 Mortgage Trust Commercial Mortgage Pass- Through Certificates	Pooling and Servicing Agreement	01/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2018-COR3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-COR3	Pooling and Servicing Agreement	05/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2018-HOME Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-HOME	Pooling and Servicing Agreement	06/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2018- B4 Mortgage Trust Commercial Mortgage Pass- Through Certificates	Pooling and Servicing Agreement	07/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CD 2018-CD7 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-CD7	Pooling and Servicing Agreement	08/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
DBGS 2018-C1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-C1	Pooling and Servicing Agreement	10/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2018- B7 Mortgage Trust Commercial Mortgage Pass- Through Certificates	Pooling and Servicing Agreement	11/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2019- B10 Mortgage Trust Commercial Mortgage Pass- Through Certificates	Pooling and Servicing Agreement	04/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Hudson Yards 2019-30HY Mortgage Trust, Commercial Mortgage Pass- Through Certificates, Hudson Yards 2019- 30HY Mortgage Trust	Trust and Servicing Agreement	07/06/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CD 2019-CD8 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-CD8	Pooling and Servicing Agreement	08/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

Benchmark 2019-B13 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-B13	Pooling and Servicing Agreement	10/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CPTS 2019-CPT Mortgage Trust Commercial Mortgage Pass- Through Certificates	Trust and Servicing Agreement	11/09/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2019-GC44 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-GC44	Pooling and Servicing Agreement	12/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2020-B16 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B16	Pooling and Servicing Agreement	02/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2020-IG2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-IG2	Pooling and Servicing Agreement	05/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2020-B18 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B18	Pooling and Servicing Agreement	07/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
DB/PM 2020-C9 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-C9	Pooling and Servicing Agreement	08/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
MOFT 2020-B6 Mortgage Trust Commercial Mortgage Pass-Through Certificates	Trust and Servicing Agreement	08/06/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Manhattan West 2020-IMW Mortgage Trust Commercial Mortgage Pass-Through Certificates	Trust and Servicing Agreement	08/28/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
COMM 2020-CX Mortgage Trust Commercial Mortgage Pass- Through Certificates	Trust and Servicing Agreement	11/05/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2020-B22 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B22	Pooling and Servicing Agreement	12/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2021-B26 Mortgage Trust Commercial Mortgage Pass- Through Certificates Series 2021-B26	Pooling and Servicing Agreement	05/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2021-B30 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2021-B30	Pooling and Servicing Agreement	11/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CAMB 2021-CX2 Mortgage Trust Commercial Mortgage Pass- Through Certificates	Trust and Servicing Agreement	11/09/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

GS Mortgage Securities Corporation II

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
GS Mortgage Securities Corporation II, Commercial Mortgage Pass- Through Certificates, Series 2014-GC22	Pooling and Servicing Agreement	06/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Corporation II, Commercial Mortgage Pass- Through Certificates, Series 2014-GC24	Pooling and Servicing Agreement	09/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Corporation II, Commercial Mortgage Pass- Through Certificates, Series 2015-GC28	Pooling and Servicing Agreement	02/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Corporation II, Commercial Mortgage Pass- Through Certificates, Series 2015-GC32	Pooling and Servicing Agreement	07/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Corporation II, Commercial Mortgage Pass- Through Certificates, Series 2015-GS1	Pooling and Servicing Agreement	11/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Corporation Trust 2015-990M, Commercial Mortgage Pass-Through Certificates, Series 2015-990M	Trust and Servicing Agreement	11/10/2015	Certificate Administrator	Agent	01/01/2025 - 09/12/2025
GS Mortgage Securities Trust 2016- GS2 Commercial Mortgage Pass- Through Certificates, Series 2016-GS2	Pooling and Servicing Agreement	05/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2016- GS3 Commercial Mortgage Pass- Through Certificates, Series 2016-GS3	Pooling and Servicing Agreement	09/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2016- GS4 Commercial Mortgage Pass- Through Certificates, Series 2016-GS4	Pooling and Servicing Agreement	11/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
VNDO Trust 2016-350P Commercial Mortgage Pass- Through Certificates, Series 2016-350P	Trust and Servicing Agreement	12/06/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

GS Mortgage Securities Trust 2017-GS5 Commercial Mortgage Pass Through Certificates, Series 2017-GS5	Pooling and Servicing Agreement	03/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2017-GS6 Commercial Mortgage Pass Through Certificates, Series 2017-GS6	Pooling and Servicing Agreement	05/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2017-GS7 Commercial Mortgage Pass Through Certificates Series 2017-GS7	Pooling and Servicing Agreement	08/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2017-GS8 Commercial Mortgage Pass Through Certificates Series 2017-GS8	Pooling and Servicing Agreement	11/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Worldwide Plaza Trust 2017-WWP Commercial Mortgage Pass-Through Certificates, Series 2017-WWP	Trust and Servicing Agreement	11/10/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Corporation Trust 2017-FARM, Commercial Mortgage Pass-Through Certificates, Series 2017-FARM	Trust and Servicing Agreement	12/29/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2018-GS9 Commercial Mortgage Pass-Through Certificates, Series 2018-GS9	Pooling and Servicing Agreement	03/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2018-GS10 Commercial Mortgage Pass-Through Certificates, Series 2018-GS10	Pooling and Servicing Agreement	07/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2019-GC38 Commercial Mortgage Pass-Through Certificates, Series 2019-GC38	Pooling and Servicing Agreement	02/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CALI Mortgage Trust 2019-101C Commercial Mortgage Pass-Through Certificates, Series 2019-101C	Trust and Servicing Agreement	03/06/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2019-GC39 Commercial Mortgage Pass-Through Certificates, Series 2019-GC39	Pooling and Servicing Agreement	05/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2019-GC40 Commercial Mortgage Pass-Through Certificates, Series 2019-GC40	Pooling and Servicing Agreement	07/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2019-GC42 Commercial Mortgage Pass-Through Certificates, Series 2019-GC42	Pooling and Servicing Agreement	09/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2019-GSA1 Commercial Mortgage Pass-Through Certificates, Series 2019-GSA1	Pooling and Servicing Agreement	11/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BWAY Trust 2019-1633 Commercial Mortgage Pass-Through Certificates, Series 2019-1633	Trust and Servicing Agreement	12/20/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2020-GC45 Commercial Mortgage Pass-Through Certificates, Series 2020-GC45	Pooling and Servicing Agreement	01/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2020-GC47 Commercial Mortgage Pass-Through Certificates, Series 2020-GC47	Pooling and Servicing Agreement	05/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2020-B21 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B21	Pooling and Servicing Agreement	11/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
GS Mortgage Securities Trust 2020-GSA2 Commercial Mortgage Pass Through Certificates Series 2020-GSA2	Pooling and Servicing Agreement	12/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2021-B25 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2021-B25	Pooling and Servicing Agreement	04/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2021-B29 Mortgage Trust Commercial Mortgage Pass Through Certificates, Series 2021-B29	Pooling and Servicing Agreement	09/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

J.P. Morgan Chase Commercial Mortgage Securities Corp.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
J.P. Morgan Chase Commercial Mortgage Securities Trust 2012-C6, Commercial Mortgage Pass-Through Certificates, Series 2012-C6	Pooling and Servicing Agreement	04/01/2012	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-C10, Commercial Mortgage Pass-Through Certificates, Series 2013-C10	Pooling and Servicing Agreement	03/01/2013	Certificate Administrator, Trustee	Agent	01/01/2025 - 12/31/2025

J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-LC11, Commercial Mortgage Pass-Through Certificates, Series 2013-LC11	Pooling and Servicing Agreement	05/01/2013	Certificate Administrator, Trustee	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2013-C12, Commercial Mortgage Pass-Through Certificates, Series 2013-C12	Pooling and Servicing Agreement	06/01/2013	Certificate Administrator, Trustee	Agent	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-C13, Commercial Mortgage Pass-Through Certificates, Series 2013-C13	Pooling and Servicing Agreement	07/01/2013	Certificate Administrator, Trustee	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2013-C14, Commercial Mortgage Pass-Through Certificates, Series 2013-C14	Pooling and Servicing Agreement	08/01/2013	Certificate Administrator, Trustee	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2014-C18, Commercial Mortgage Pass-Through Certificates, Series 2014-C18	Pooling and Servicing Agreement	02/01/2014	Certificate Administrator, Trustee	Agent	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2014-C20, Commercial Mortgage Pass-Through Certificates, Series 2014-C20	Pooling and Servicing Agreement	06/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2014-C21, Commercial Mortgage Pass-Through Certificates, Series 2014-C21	Pooling and Servicing Agreement	07/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2014-C22, Commercial Mortgage Pass-Through Certificates, Series 2014-C22	Pooling and Servicing Agreement	08/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2014-C23, Commercial Mortgage Pass-Through Certificates, Series 2014-C23	Pooling and Servicing Agreement	09/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2014-C24, Commercial Mortgage Pass-Through Certificates, Series 2014-C24	Pooling and Servicing Agreement	10/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2014-C25, Commercial Mortgage Pass-Through Certificates, Series 2014-C25	Pooling and Servicing Agreement	11/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2014-C26, Commercial Mortgage Pass-Through Certificates, Series 2014-C26	Pooling and Servicing Agreement	12/01/2014	Certificate Administrator, Trustee	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2015-C27, Commercial Mortgage Pass-Through Certificates, Series 2015-C27	Pooling and Servicing Agreement	02/01/2015	Certificate Administrator, Trustee	Agent	01/01/2025 - 12/31/2025
Houston Galleria Mall Trust 2015-HGLR, Commercial Mortgage Securities Pass-Through Certificates, Series 2015-HGLR	Trust and Servicing Agreement	03/30/2015	Certificate Administrator	Agent	01/01/2025 - 02/06/2025
JPMBB Commercial Mortgage Securities Trust 2015-C28, Commercial Mortgage Pass-Through Certificates, Series 2015-C28	Pooling and Servicing Agreement	04/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2015-C29, Commercial Mortgage Pass-Through Certificates, Series 2015-C29	Pooling and Servicing Agreement	06/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2015-C30, Commercial Mortgage Pass-Through Certificates, Series 2015-C30	Pooling and Servicing Agreement	07/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Corp., Commercial Mortgage Pass-Through Certificates, Series 2015-WPG	Pooling and Servicing Agreement	07/24/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2015-C31, Commercial Mortgage Pass-Through Certificates, Series 2015-C31	Pooling and Servicing Agreement	08/01/2015	Certificate Administrator, Trustee	Agent	01/01/2025 - 12/31/2025

JPMBB Commercial Mortgage Securities Trust 2015-C32, Commercial Mortgage Pass-Through Certificates, Series 2015-C32	Pooling and Servicing Agreement	10/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2015-C33, Commercial Mortgage Pass-Through Certificates, Series 2015-C33	Pooling and Servicing Agreement	11/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMCC Commercial Mortgage Securities Trust 2015-JP1, Commercial Mortgage Pass-Through Certificates, Series 2015-JP1	Pooling and Servicing Agreement	12/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMBB Commercial Mortgage Securities Trust 2016-C1 Commercial Mortgage Pass-Through Certificates Series 2016-C1	Pooling and Servicing Agreement	03/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Palisades Center Trust 2016-PLSD Commercial Mortgage Pass-Through Certificates, Series 2016-PLSD	Trust and Servicing Agreement	04/29/2016	Certificate Administrator	Agent	01/01/2025 - 10/16/2025
JPMDB Commercial Mortgage Securities Trust 2016-C2 Commercial Mortgage Pass-Through Certificates, Series 2016-C2	Pooling and Servicing Agreement	05/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMCC Commercial Mortgage Securities Trust 2016-JP2 Commercial Mortgage Pass-Through Certificates Series 2016-JP2	Pooling and Servicing Agreement	07/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Shops at Crystals Trust 2016-CSTL Commercial Mortgage Pass-Through Certificates, Series 2016-CSTL	Trust and Servicing Agreement	07/20/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMCC Commercial Mortgage Securities Trust 2016-JP3 Commercial Mortgage Pass-Through Certificates, Series 2016-JP3	Pooling and Servicing Agreement	09/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2016-NINE Commercial Mortgage Pass-Through Certificates, Series 2016-NINE	Trust and Servicing Agreement	09/26/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2016-C4 Commercial Mortgage Pass-Through Certificates, Series 2016-C4	Pooling and Servicing Agreement	11/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Hilton USA Trust 2016-HHV Commercial Mortgage Pass-Through Certificates, Series 2016-HHV	Trust and Servicing Agreement	11/28/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMCC Commercial Mortgage Securities Trust 2016-JP4 Commercial Mortgage Pass-Through Certificates, Series 2016-JP4	Pooling and Servicing Agreement	12/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMCC Commercial Mortgage Securities Trust 2017-JP5, Commercial Mortgage Pass-Through Certificates, Series 2017-JP5	Pooling and Servicing Agreement	03/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2017-C5, Commercial Mortgage Pass-Through Certificates, Series 2017-C5	Pooling and Servicing Agreement	03/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
245 Park Avenue Trust 2017-245P Commercial Mortgage Pass-Through Certificates, Series 2017-245P	Trust and Servicing Agreement	05/30/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMCC Commercial Mortgage Securities Trust 2017-JP6, Commercial Mortgage Pass-Through Certificates, Series 2017-JP6	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMCC Commercial Mortgage Securities Trust 2017-JP7 Commercial Mortgage Pass-Through Certificates, Series 2017-JP7	Pooling and Servicing Agreement	07/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2017-C7 Commercial Mortgage Pass-Through Certificates Series 2017-C7	Pooling and Servicing Agreement	10/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2018-B2 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-B2	Pooling and Servicing Agreement	02/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2018-C8, Commercial Mortgage Pass-Through Certificates, Series 2018-C8	Pooling and Servicing Agreement	06/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Aventura Mall Trust 2018-AVM Commercial Mortgage Pass-Through Certificates, Series 2018-AVM	Trust and Servicing Agreement	06/29/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

J.P. Morgan Chase Commercial Mortgage Securities Trust 2018-AON, Commercial Mortgage Pass-Through Certificates, Series 2018-AON	Trust and Servicing Agreement	06/29/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2018-WPT Commercial Mortgage Pass-Through Certificates, Series 2018-WPT	Trust and Servicing Agreement	07/31/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2018-B5 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-B5	Pooling and Servicing Agreement	08/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2018-B8 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2018-B8	Pooling and Servicing Agreement	12/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPCC Commercial Mortgage Securities Trust 2019-COR4, Commercial Mortgage Pass-Through Certificates, Series 2019-COR4	Pooling and Servicing Agreement	02/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-ICON, Commercial Mortgage Pass-Through Certificates, Series 2019-ICON	Pooling and Servicing Agreement	04/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-ICON UES, Commercial Mortgage Pass-Through Certificates, Series 2019-ICON UES	Trust and Servicing Agreement	05/16/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2019-B11 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-B11	Pooling and Servicing Agreement	06/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-OSB Commercial Mortgage Pass-Through Certificates, Series 2019-OSB	Trust and Servicing Agreement	06/13/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2019-B14 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2019-B14	Pooling and Servicing Agreement	11/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2019-COR6 Commercial Mortgage Pass-Through Certificates Series 2019-COR6	Pooling and Servicing Agreement	11/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2020-IG1 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-IG1	Pooling and Servicing Agreement	02/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-LOOP Commercial Mortgage Pass-Through Certificates, Series 2020-LOOP	Trust and Servicing Agreement	02/05/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2020-B17 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B17	Pooling and Servicing Agreement	03/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-NNN, Commercial Mortgage Pass-Through Certificates, Series 2020-NNN	Trust and Servicing Agreement	03/05/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2020-IG3 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-IG3	Pooling and Servicing Agreement	05/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
JPMDB Commercial Mortgage Securities Trust 2020-COR7, Commercial Mortgage Pass-Through Certificates, Series 2020-COR7	Pooling and Servicing Agreement	06/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2020-B20 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2020-B20	Pooling and Servicing Agreement	10/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2021-B24 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2021-B24	Pooling and Servicing Agreement	03/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
J.P. Morgan Chase Commercial Mortgage Securities Trust 2021-410T Commercial Mortgage Pass-Through Certificates, Series 2021-410T	Trust and Servicing Agreement	03/12/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Benchmark 2021-B28 Mortgage Trust Commercial Mortgage Pass-Through Certificates, Series 2021-B28	Pooling and Servicing Agreement	08/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
KREST Commercial Mortgage Securities Trust 2021-CHIP, Commercial Mortgage Pass-Through Certificates, Series 2021-CHIP	Trust and Servicing Agreement	08/24/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

J.P. Morgan Chase Commercial Mortgage Securities Trust 2021-1MEM Commercial Mortgage Pass-Through Certificates, Series 2021-1MEM	Trust and Servicing Agreement	10/14/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
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Ladder Capital Commercial Mortgage Securities, LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
LCCM 2017-LC26 Mortgage Trust Commercial Mortgage Pass Through Certificates, Series 2017-LC26	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

LSTAR Depositor, LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
LSTAR Commercial Mortgage Trust 2017-5 Commercial Mortgage Pass-Through Certificates, Series 2017-5	Amended and Restated Pooling & Servicing Agreement	11/30/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

Morgan Stanley Capital I Inc.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
Morgan Stanley Bank of America Merrill Lynch Trust 2012-C6, Commercial Mortgage Pass-Through Certificates, Series 2012-C6	Pooling and Servicing Agreement	10/01/2012	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2013-C9, Commercial Mortgage Pass-Through Certificates, Series 2013-C9	Pooling and Servicing Agreement	05/01/2013	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2013-C10, Commercial Mortgage Pass-Through Certificates, Series 2013-C10	Pooling and Servicing Agreement	07/01/2013	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2013-C12, Commercial Mortgage Pass-Through Certificates, Series 2013-C12	Pooling and Servicing Agreement	10/01/2013	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2014-C19, Commercial Mortgage Pass-Through Certificates, Series 2014-C19	Pooling and Servicing Agreement	12/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C20, Commercial Mortgage Pass-Through Certificates, Series 2015-C20	Pooling and Servicing Agreement	01/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C21, Commercial Mortgage Pass-Through Certificates, Series 2015-C21	Pooling and Servicing Agreement	02/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C22, Commercial Mortgage Pass-Through Certificates, Series 2015-C22	Pooling and Servicing Agreement	04/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
MSCCG Trust 2015-ALDR Commercial Mortgage Pass-Through Certificates, Series 2015-ALDR	Trust and Servicing Agreement	05/05/2015	Certificate Administrator	Agent	01/01/2025 - 06/09/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C23, Commercial Mortgage Pass-Through Certificates, Series 2015-C23	Pooling and Servicing Agreement	06/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2015-MS1, Commercial Mortgage Pass-Through Certificates, Series 2015-MS1	Pooling and Servicing Agreement	07/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C24, Commercial Mortgage Pass-Through Certificates, Series 2015-C24	Pooling and Servicing Agreement	08/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C26, Commercial Mortgage Pass-Through Certificates, Series 2015-C26	Pooling and Servicing Agreement	11/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2015-C27, Commercial Mortgage Pass-Through Certificates, Series 2015-C27	Pooling and Servicing Agreement	11/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2015-UBS8, Commercial Mortgage Pass-Through Certificates, Series 2015-UBS8	Pooling and Servicing Agreement	12/01/2015	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2016-PSQ Commercial Mortgage Pass-Through Certificates, Series 2016-PSQ	Trust and Servicing Agreement	02/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

Morgan Stanley Capital I Trust 2016-UBS9 Commercial Mortgage Pass-Through Certificates, Series 2016-UBS9	Pooling and Servicing Agreement	03/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2016-C29 Commercial Mortgage Pass-Through Certificates Series 2016-C29	Pooling and Servicing Agreement	05/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2016-UBS11 Commercial Mortgage Pass-Through Certificates Series 2016-UBS11	Pooling and Servicing Agreement	08/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2016-C30 Commercial Mortgage Pass-Through Certificates, Series 2016-C30	Pooling and Servicing Agreement	09/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2016-BNK2 Commercial Mortgage Pass Through Certificates, Series 2016-BNK2	Pooling and Servicing Agreement	11/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2016-UBS12 Commercial Mortgage Pass-Through Certificates Series 2016-UBS12	Pooling and Servicing Agreement	12/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Bank of America Merrill Lynch Trust 2017-C33 Commercial Mortgage Pass-Through Certificates Series 2017-C33	Pooling and Servicing Agreement	05/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2017-BNK5 Commercial Mortgage Pass-Through Certificates, Series 2017-BNK5	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2017-H1 Commercial Mortgage Pass-Through Certificates, Series 2017-H1	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator, Trustee	Agent	01/01/2025 - 12/31/2025
BXP Trust 2017-GM Commercial Mortgage Pass-Through Certificates, Series 2017-GM	Trust and Servicing Agreement	06/09/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BXP Trust 2017-CC Commercial Mortgage Pass-Through Certificates, Series 2017-CC	Trust and Servicing Agreement	08/09/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
MSSG Trust 2017-237P Commercial Mortgage Pass-Through Certificates, Series 2017-237P	Trust and Servicing Agreement	08/09/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2017-BNK8 Commercial Mortgage Pass Through Certificates Series 2017-BNK8	Pooling and Servicing Agreement	11/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2017-HR2 Commercial Mortgage Pass-Through Certificates, Series 2017-HR2	Pooling and Servicing Agreement	12/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2018-BNK11 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK11	Pooling and Servicing Agreement	04/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2018-H3 Commercial Mortgage Pass-Through Certificates, Series 2018-H3	Pooling and Servicing Agreement	07/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2018-MP Commercial Mortgage Pass-Through Certificates, Series 2018-MP	Trust and Servicing Agreement	08/07/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2018-BNK14 Commercial Mortgage Pass-Through Certificates, Series 2018-BNK14	Pooling and Servicing Agreement	09/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2018-L1 Commercial Mortgage Pass-Through Certificates, Series 2018-L1	Pooling and Servicing Agreement	10/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2018-H4 Commercial Mortgage Pass-Through Certificates, Series 2018-H4	Pooling and Servicing Agreement	12/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2019-L2 Commercial Mortgage Pass-Through Certificates, Series 2019-L2	Pooling and Servicing Agreement	03/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
ILPT Trust 2019-SURF Commercial Mortgage Pass-Through Certificates, Series 2019-SURF	Trust and Servicing Agreement	03/07/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2019-BNK17 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK17	Pooling and Servicing Agreement	04/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2019-H6 Commercial Mortgage Pass-Through Certificates, Series 2019-H6	Pooling and Servicing Agreement	06/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2019-H7 Commercial Mortgage Pass-Through Certificates, Series 2019-H7	Pooling and Servicing Agreement	07/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2019-BNK20					

Commercial Mortgage Pass-Through Certificates, Series 2019-BNK20	Pooling and Servicing Agreement	09/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2019-L3 Commercial Mortgage Pass-Through Certificates, Series 2019-L3	Pooling and Servicing Agreement	11/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2019-BNK23 Commercial Mortgage Pass-Through Certificates, Series 2019-BNK23	Pooling and Servicing Agreement	12/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BX Trust 2019-OC11 Commercial Mortgage Pass-Through Certificates, Series 2019-OC11	Trust and Servicing Agreement	12/01/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2020-L4 Commercial Mortgage Pass-Through Certificates, Series 2020-L4	Pooling and Servicing Agreement	02/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2020-BNK26 Commercial Mortgage Pass Through Certificates, Series 2020-BNK26	Pooling and Servicing Agreement	03/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2020-CNP Commercial Mortgage Pass-Through Certificates, Series 2020-CNP	Trust and Servicing Agreement	05/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2020-HR8 Commercial Mortgage Pass-Through Certificates, Series 2020-HR8	Pooling and Servicing Agreement	07/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2020-BNK29 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK29	Pooling and Servicing Agreement	11/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2021-BNK32 Commercial Mortgage Pass-Through Certificates Series 2021-BNK32	Pooling and Servicing Agreement	03/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2021-L5 Commercial Mortgage Pass-Through Certificates Series 2021-L5	Pooling and Servicing Agreement	05/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2021-L6 Commercial Mortgage Pass-Through Certificates Series 2021-L6	Pooling and Servicing Agreement	07/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2021-BNK35 Commercial Mortgage Pass Through Certificates, Series 2021-BNK35	Pooling and Servicing Agreement	08/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Morgan Stanley Capital I Trust 2021-L7 Commercial Mortgage Pass-Through Certificates Series 2021-L7	Pooling and Servicing Agreement	10/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

Natixis Commercial Mortgage Securities LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
Natixis Commercial Mortgage Securities Trust 2017-75B Commercial Mortgage Pass-Through Certificates, Series 2017-75B	Trust and Servicing Agreement	05/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Natixis Commercial Mortgage Securities Trust 2018-ALXA, Commercial Mortgage Pass-Through Certificates, Series 2018-ALXA	Trust and Servicing Agreement	02/23/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Natixis Commercial Mortgage Securities Trust 2018-OSS Commercial Mortgage Pass Through Certificates Series 2018-OSS	Trust and Servicing Agreement	02/27/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
20 Times Square Trust 2018-20TS, Commercial Mortgage Pass-Through Certificates, Series 2018-20TS	Trust and Servicing Agreement	05/23/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Natixis Commercial Mortgage Securities Trust 2019-NEMA, Commercial Mortgage Pass-Through Certificates, Series 2019-NEMA	Trust and Servicing Agreement	03/29/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Natixis Commercial Mortgage Securities Trust 2019-LVL, Commercial Mortgage Pass-Through Certificates, Series 2019-LVL	Trust and Servicing Agreement	04/23/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Natixis Commercial Mortgage Securities Trust 2019-10K, Commercial Mortgage Pass-Through Certificates, Series 2019-10K	Trust and Servicing Agreement	06/04/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Natixis Commercial Mortgage Securities Trust 2019-FAME, Commercial Mortgage Pass-Through Certificates, Series 2019-FAME	Trust and Servicing Agreement	09/04/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

RBS Commercial Funding Inc.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(ies)	Computershare Capacity(ies)	Reporting Period
RBS Commercial					

Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C11	Pooling and Servicing Agreement	02/01/2013	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2013-C15	Pooling and Servicing Agreement	08/01/2013	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C21	Pooling and Servicing Agreement	08/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C23	Pooling and Servicing Agreement	09/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
RBS Commercial Funding Inc., Commercial Mortgage Pass-Through Certificates, Series 2014-C25	Pooling and Servicing Agreement	12/01/2014	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

SG Commercial Mortgage Securities, LLC

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(es)	Computershare Capacity(es)	Reporting Period
SG Commercial Mortgage Securities LLC Commercial Mortgage Pass-Through Certificates, Series 2016-C5	Pooling and Servicing Agreement	07/01/2016	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
SG Commercial Mortgage Securities Trust 2019-787E, Commercial Mortgage Pass-Through Certificates, Series 2019-787E	Trust and Servicing Agreement	02/20/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
SG Commercial Mortgage Securities Trust 2019-PREZ, Commercial Mortgage Pass-Through Certificates, Series 2019-PREZ	Trust and Servicing Agreement	09/06/2019	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
SG Commercial Mortgage Securities Trust 2020-COVE, Commercial Mortgage Pass-Through Certificates, Series 2020-COVE	Trust and Servicing Agreement	02/12/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

UBS Commercial Mortgage Securitization Corp.

Transaction	Servicing Agreement	Servicing Agreement Date	Wells Fargo Capacity(es)	Computershare Capacity(es)	Reporting Period
UBS Commercial Mortgage Trust 2017-C1 Commercial Mortgage Pass-Through Certificates Series 2017-C1	Pooling and Servicing Agreement	06/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
UBS Commercial Mortgage Trust 2017-C2 Commercial Mortgage Pass-Through Certificates Series 2017-C2	Pooling and Servicing Agreement	08/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
UBS Commercial Mortgage Trust 2017-C3 Commercial Mortgage Pass-Through Certificates Series 2017-C3	Pooling and Servicing Agreement	08/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
UBS Commercial Mortgage Trust 2017-C4 Commercial Mortgage Pass-Through Certificates Series 2017-C4	Pooling and Servicing Agreement	10/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
CCUBS Commercial Mortgage Trust 2017-C1 Commercial Mortgage Pass-Through Certificates, Series 2017-C1	Pooling and Servicing Agreement	11/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
UBS Commercial Mortgage Trust 2017-C6 Commercial Mortgage Pass-Through Certificates Series 2017-C6 Series 2017-C6	Pooling and Servicing Agreement	12/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
UBS Commercial Mortgage Trust 2017-C7 Commercial Mortgage Pass-Through Certificates Series 2017-C7	Pooling and Servicing Agreement	12/01/2017	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
UBS Commercial Mortgage Trust 2018-C8 Commercial Mortgage Pass-Through Certificates Series 2018-C8	Pooling and Servicing Agreement	02/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
UBS Commercial Mortgage Trust 2018-C9 Commercial Mortgage Pass-Through Certificates Series 2018-C9	Pooling and Servicing Agreement	03/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
UBS Commercial Mortgage Trust 2018-C10 Commercial Mortgage Pass-Through Certificates Series 2018-C10	Pooling and Servicing Agreement	05/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
UBS Commercial Mortgage Trust 2018-C11 Commercial Mortgage Pass-Through Certificates Series 2018-C11	Pooling and Servicing Agreement	07/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
UBS Commercial Mortgage Trust 2018-C12 Commercial Mortgage Pass-Through Certificates Series 2018-C12	Pooling and Servicing Agreement	08/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
UBS Commercial Mortgage Trust 2018-C13 Commercial Mortgage Pass-Through Certificates Series 2018-C13	Pooling and Servicing Agreement	10/01/2018	Certificate Administrator	Agent	01/01/2025 - 12/31/2025

BANK 2020-BNK28 Commercial Mortgage Pass-Through Certificates, Series 2020-BNK28	Pooling and Servicing Agreement	09/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Wells Fargo Commercial Mortgage Trust 2020- C58 Commercial Mortgage Pass-Through Certificates, Series 2020- C58	Pooling and Servicing Agreement	12/01/2020	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2021- BNK31 Commercial Mortgage Pass-Through Certificates, Series 2021- BNK31	Pooling and Servicing Agreement	02/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Wells Fargo Commercial Mortgage Trust 2021- C59 Commercial Mortgage Pass-Through Certificates, Series 2021- C59	Pooling and Servicing Agreement	05/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
BANK 2021-BNK34 Commercial Mortgage Pass- Through Certificates Series 2021- BNK34	Pooling and Servicing Agreement	06/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025
Wells Fargo Commercial Mortgage Trust 2021- C60 Commercial Mortgage Pass-Through Certificates, Series 2021- C60	Pooling and Servicing Agreement	07/01/2021	Certificate Administrator	Agent	01/01/2025 - 12/31/2025