

Presale:

Churchill Middle Market CLO IV Ltd./Churchill Middle Market CLO IV LLC (Refinancing And Extension)

March 25, 2024

Preliminary ratings

Class	Preliminary rating	Balance (mil. \$)	Overcollateralization (%)	Par subordination (%)	Interest rate (%)
X	AAA (sf)	4.61	N/A	N/A	Three-month CME term SOFR + 1.300
A-R	AAA (sf)	153.00	172.41	42.00	Three-month CME term SOFR + 1.930
A-L-R loans(i)	AAA (sf)	50.00	172.41	42.00	Three-month CME term SOFR + 1.930
B-R	AA (sf)	45.50	140.85	29.00	Three-month CME term SOFR + 2.500
C-R (deferrable)	A (sf)	21.00	129.87	23.00	Three-month CME term SOFR + 3.200
D-R (deferrable)	BBB- (sf)	17.50	121.95	18.00	Three-month CME term SOFR + 5.000
E-R (deferrable)	BB- (sf)	21.00	113.64	12.00	Three-month CME term SOFR + 8.140
Subordinated Notes	NR	48.65	N/A	N/A	Residual

Note: This presale report is based on information as of March 25, 2024. The ratings shown are preliminary. This report does not constitute a recommendation to buy, hold, or sell securities. Subsequent information may result in the assignment of final ratings that differ from the preliminary ratings. (i) All or a portion of class A-L-R loans can be converted into class A-R notes. Upon such conversion, the class A-L-R loans will be decreased by such converted amount with a corresponding increase in class A-R notes. Class A-R notes cannot be converted to class A-L-R loans. NR--Not rated. N/A--Not applicable.

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Executive Summary

Churchill Middle Market CLO IV Ltd. is a \$361.26 million middle market CLO managed by Churchill Asset Management LLC, an affiliate of Nuveen with TIAA Global Asset Management (TIAA) as the parent company. This is a proposed refinancing of its December 2019 transaction.

Based on provisions in the transaction documents and the portfolio characteristics:

- The replacement class debt is expected to be issued at a slightly higher weighted average cost of debt than the original debt.
- The original class A-1, A-2, and A-L debt is expected to be combined into replacement class A-R and A-L-R debt.
- The original class D-1 floating-rate debt and class D-2 fixed-coupon debt are expected to be combined into a single floating spread replacement class D-R debt.
- The original class E-1 and E-2 debt is expected to be combined into replacement class E-R debt.
- The stated maturity, reinvestment period, and non-call period are expected to be extended by approximately 4.25 years.
- Class X debt is expected to be issued in connection with this refinancing. These notes are expected to be paid down using interest proceeds during the first 16 payment dates beginning with the payment date in July 2024.
- Of the identified underlying collateral obligations, 98.19% have credit ratings (which may include confidential ratings, private ratings, and credit estimates) assigned by S&P Global Ratings.
- Of the identified underlying collateral obligations, 18.50% have recovery ratings (which may include confidential and private ratings) assigned by S&P Global Ratings.

After analyzing the changes to the transaction, we assigned our preliminary ratings to the replacement class X, A-R, A-L-R, B-R, C-R, D-R, and E-R debt. The original class A-1, A-L, A-2, B, C, D-1, D-2, E-1, and E-2 debt are expected to be fully redeemed with the proceeds from the replacement debt issued on the April 11, 2024, refinancing date. On the refinancing date, we expect to withdraw the ratings on the original notes and assign ratings to the new notes.

Key Credit Metrics

Selected credit metrics

Churchill Middle Market CLO IV Ltd.	
Total leverage (x)(ii)	6.33
Par subordination ('AAA'/'BBB') (%)	42.00/18.00
WA cost of debt (%) (iii)	2.70
Portfolio WAS (excluding floors) (%)	5.28
SDR ('AAA'/'BBB') (%)	73.37/53.23
WA portfolio recovery ('AAA'/'BBB') (%)	47.53/62.34

(ii) Total debt to equity (excluding any class X debt, if applicable). (iii) Spread over SOFR for all classes, excluding the subordinated notes and, if applicable, any class X debt. Additionally, if there is a fixed-rate tranche, SOFR is subtracted from the fixed coupon in the calculation.
 WA--Weighted average. WAS--Weighted average spread. Bps--Basis points. SDR--Scenario default rate. N/A--Not applicable.

Transaction Timeline/Participants

Transaction timeline

Expected closing date	April 11, 2024.
Debt payment frequency	Quarterly, beginning July 23, 2024.
Non-call period end date	April 23, 2026.
Reinvestment period end date	April 23, 2028.
Stated maturity date	April 23, 2036.

Participants

Collateral manager	Churchill Asset Management LLC.
Placement agent	Natixis Securities Americas LLC.
Trustee	The Bank of New York Mellon Trust Co. N.A.

Rationale

The preliminary ratings assigned to Churchill Middle Market CLO IV Ltd./Churchill Middle Market CLO IV LLC's floating-rate debt reflect our assessment of:

- The diversification of the collateral pool, which consists primarily of Middle Market speculative-grade (rated 'BB+' and lower) senior secured term loans.
- The credit enhancement provided through subordination, excess spread, and overcollateralization.
- The experience of the collateral manager's team, which can affect the performance of the rated debt through portfolio identification and ongoing management.
- The transaction's legal structure, which is expected to be bankruptcy remote.

We may choose to make qualitative adjustments to our analysis when rating CLO tranches to reflect the likelihood that changes to the underlying assets' credit profile may affect a portfolio's credit quality in the near term. This is consistent with paragraph 15 of our criteria for analyzing CLOs (see "Global Methodology And Assumptions For CLOs And Corporate CDOs," published June 21, 2019). To do this, we may review the likelihood of near-term changes to the portfolio's credit profile by evaluating the transaction's specific risk factors. Based on our review of these factors, we believe there is adequate cushion between this CLO tranches' break-even default rates (BDRs) and scenario default rates (SDRs) to address the possibility of near-term changes to the portfolio's credit quality.

Environmental, Social, And Governance

We regard the exposure to environmental, social, and governance (ESG) credit factors in the transaction as being broadly in line with our benchmark for the sector (see "ESG Industry Report Card: Collateralized Loan Obligations," published March 31, 2021). For CLOs, we view the exposure to environmental credit factors as below average, to social credit factors as below average, and to governance credit factors as average, primarily due to the diversity of the assets within the sector.

The transaction documents prohibit assets related to certain activities, including but not limited to the following industries:

- Thermal coal, coal mining, and coal-based power generation;
- Oil sands and associated pipelines industry;

- Palm oil and palm fruit products production;
- Opioid production and distribution;
- Controversial weapon production and trading;
- Adult entertainment, pornography, and prostitution;
- Tobacco and tobacco-related products;
- Payday lending;
- Firearms; and
- Endangered and protected wildlife trading.

Accordingly, since the exclusion of assets from these industries does not result in material differences between the transaction and our ESG benchmark for the sector, we made no specific adjustments in our rating analysis to account for any ESG-related risks or opportunities.

Collateral Manager

Churchill Asset Management LLC currently manages eight CLOs and has \$3.489 billion in total CLO assets under management (AUM). Including non-CLO assets, Nuveen has \$1.1 trillion in total AUM.

Analysis of past CLO 2.0 transactions (i.e., deals issued after the financial crisis) that are managed by Churchill Asset Management LLC and its affiliates and rated by S&P Global Ratings reveals:

- An average portfolio turnover rate of 10.38% over the past 12 months, which is lower than the average of 15.15% for all CLO 2.0 transactions rated by S&P Global Ratings.
- An industry concentration that favors health care providers and services.
- That of the transactions that are still in their reinvestment period, 100% have a current par amount above the effective date target par.
- An average senior overcollateralization cushion of 10.26% as of the transaction's closing date.

Quantitative Analysis

In analyzing this transaction, S&P Global Ratings conducted a quantitative review consisting of two analyses: a portfolio analysis and a cash flow analysis.

Understanding our portfolio and cash flow analyses

For the portfolio analysis, S&P Global Ratings ran the portfolio presented to us through the CDO Evaluator model, which defaults portions of the underlying collateral based on the default probability and correlation assumptions defined in S&P Global Ratings criteria. This resulted in a set of SDRs that represent expected default levels for the portfolio under the different stress scenarios associated with each rating level (see chart 1).

For example, the 'AAA' stress scenario assumes an extreme level of stress that is similar to what was experienced during the Great Depression, while the 'BBB' stress scenario assumes a high, but less severe, level of stress that is more akin to the 2008 recession. As a result, the portfolio will

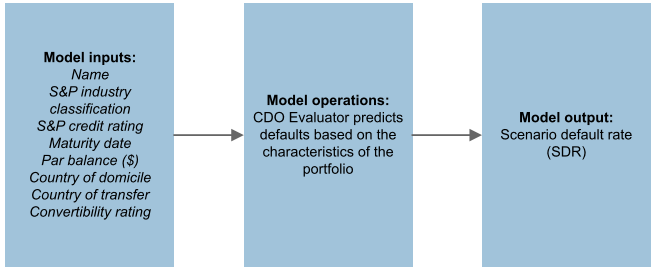
experience a higher level of defaults in the 'AAA' stress scenario than the 'BBB' stress scenario.

For the cash flow analysis, we input the transaction-specific structural features presented to us into the Standard & Poor's Cash Flow Evaluator model to generate a base case set of cash flows. These cash flows are then subjected to various default timing and interest rate stress scenarios to arrive at a BDR for each rated class of debt (see chart 2).

For each class, the BDR represents the maximum amount of defaults that the class can withstand while still being able to pay timely interest and ultimate principal to its debtholders. Classes with higher subordination typically have higher BDRs.

Chart 1

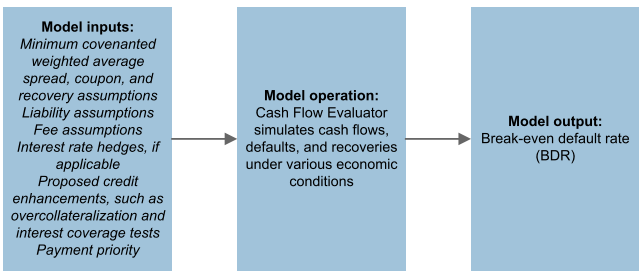
CDO Evaluator



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Chart 2

Cash Flow Evaluator



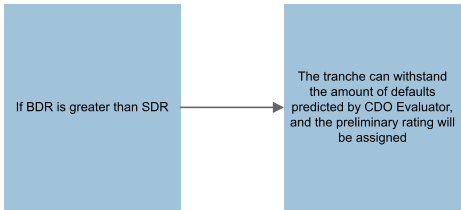
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Connecting the portfolio and cash flow analyses

For a tranche to achieve a particular rating, it must be able to withstand the level of defaults projected by the CDO Evaluator and still pay timely interest and principal (see chart 3).

Chart 3

Assignment of tranche rating



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The results shown in table 1 indicate that the rated debt has sufficient credit enhancement to withstand our projected default levels.

Table 1

Credit enhancement

Class	Preliminary rating	BDR (%)	SDR (%)	BDR cushion (%)
X	AAA (sf)	99.99	73.37	26.62
A-R	AAA (sf)	84.26	73.37	10.89
A-L-R loans	AAA (sf)	84.26	73.37	10.89
B-R	AA (sf)	74.69	65.53	9.16
C-R (deferrable)	A (sf)	67.36	58.91	8.46
D-R (deferrable)	BBB- (sf)	59.74	49.01	10.73
E-R (deferrable)	BB- (sf)	52.81	41.03	11.78

BDR--Break-even default rate. SDR--Scenario default rate.

Supplemental tests

We also conduct a largest-industry default test and a largest-obligor default test according to our "Global Methodology And Assumptions For CLOs And Corporate CDOs," criteria published June 21, 2019. Under these assumptions, the debt can withstand the loss amounts indicated in table 2 at their preliminary rating levels.

Table 2

Supplemental tests

Class	Preliminary rating	Preliminary amount (mil. \$)	Largest-industry default test loss amount (mil. \$)	Largest-obligor default test loss amount (mil. \$)
A-R	AAA (sf)	153.00	29.84	48.15
A-L-R loans	AAA (sf)	50.00	29.84	48.15
B-R	AA (sf)	45.50	29.82	40.53
C-R (deferrable)	A (sf)	21.00	N/A	32.83
D-R (deferrable)	BBB- (sf)	17.50	N/A	24.03
E-R (deferrable)	BB- (sf)	21.00	N/A	18.60

N/A--Not applicable.

Collateral Quality Tests

In addition to the quantitative framework, we produce and review collateral quality metrics to assess specific risks inherent in a transaction. The results for the collateral quality tests, based on the identified portfolio provided to us, are shown in table 3.

Table 3

Collateral quality metrics--performing identified collateral

Test	WA	Covenant	Margin
WA life (years)(i)	4.03	8.00	3.97

Table 3

Collateral quality metrics--performing identified collateral (cont.)

Test	WA	Covenant	Margin
WAS (including floors) (%)	5.28	4.75	0.53
WA fixed coupon (%) (ii)	N/A	7.00	N/A
WA rating	B-	N/A	N/A

(i) The calculated value may include an adjustment to some asset maturity inputs if the resulting pool's WA maturity is less than the length of the reinvestment period. (ii) The calculated value does not give credit to excess spread, which may positively adjust the calculation when determining compliance with the covenant. WA--Weighted average. WAS--Weighted average spread. Bps--Basis points. N/A--Not applicable.

Portfolio Characteristics

Metrics based on the portfolio presented to S&P Global Ratings and the level of ramp-up completion are shown in tables 4A and 4B.

Table 4A

Target collateral obligations

Target par balance (mil. \$)	350.00
Par balance of identified collateral (mil. \$)	332.54
Par balance of collateral not yet identified (mil. \$)	17.88
S&P Global Ratings' ratings and confidential indications (%) of identified collateral (i)	98.19

(i) May include confidential ratings, private ratings, and credit estimates.

Table 4B

Identified collateral obligations (obligors)

No. of obligors	117
Avg. obligor holding (%)	0.85
Largest-obligor holding (%)	2.12
Smallest-obligor holding (%)	0.05

In the portfolio data referenced for this analysis, the issuer identified approximately 95.01% of the portfolio's collateral. As the portfolio composition changes, the information and results presented in tables 5 and 6 and charts 4-7 are also likely to change.

Obligor concentration

Table 5 shows the top five obligor holdings of the underlying portfolio presented to S&P Global Ratings as of the date of this publication.

Table 5

Top five obligor holdings

Obligor reference	Industry	Security type	S&P Global Ratings' credit rating	S&P Global Ratings' implied rating	CreditWatch/Outlook	Notional amount (mil. \$)		Notional amount (%)	
						Obligor	Cumulative	Obligor	Cumulative
1	Professional services	Senior secured	N/A	No	N/A	7.03	7.03	2.01	2.01

Table 5

Top five obligor holdings (cont.)

Obligor reference	Industry	Security type	S&P Global Ratings' credit rating	S&P Global Ratings' implied rating	CreditWatch/Outlook	Notional amount (mil. \$)		Notional amount (%)	
						Obligor	Cumulative	Obligor	Cumulative
2	It services	Senior secured	N/A	No	N/A	6.65	13.68	1.90	3.91
3	Software	Senior secured	N/A	No	N/A	5.79	19.47	1.65	5.56
4	Media	Senior secured	CCC+	No	Developing	5.67	25.13	1.62	7.18
5	Air freight and logistics	Senior secured	B	No	Stable	4.70	29.83	1.34	8.52

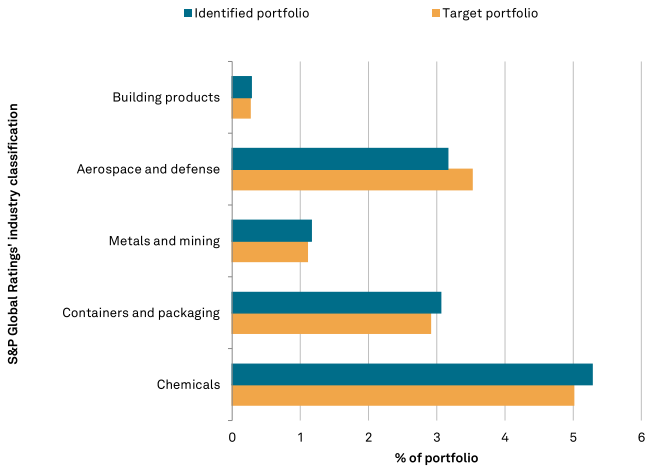
N/A--Not applicable.

Industry and ratings distribution

Chart 4 shows the top five industry distribution in the portfolio, and chart 5 shows the ratings distribution in the portfolio.

Chart 4

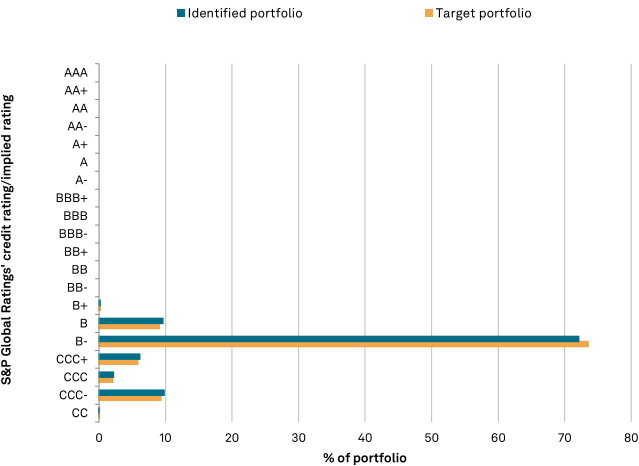
Industry distribution



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Chart 5

Rating distribution



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Recovery rating and maturity distribution

Table 6 and chart 6 present a summary of the S&P Global Ratings loan recovery rates for the identified portfolio. Chart 7 shows the maturity distribution in the identified portfolio.

Table 6

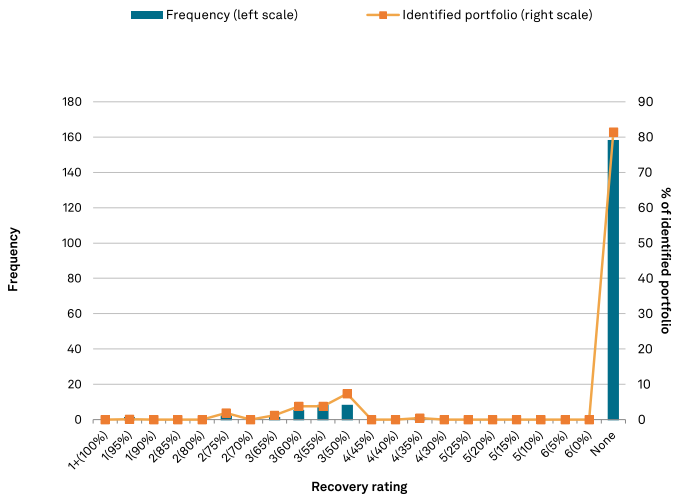
Performing identified collateral modeled WARR

Liability rating category	WARR (%)	Min. covenanted WARR (%)
AAA (sf)	47.53	46.75
AA (sf)	53.44	52.00
A (sf)	57.81	55.75
BBB (sf)	62.34	59.75
BB (sf)	73.07	71.75

WARR--Weighted average recovery rate.

Chart 6

Recovery rating distribution

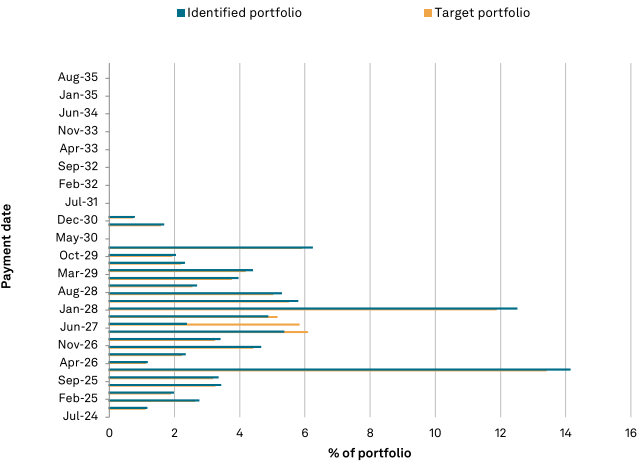


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Chart 7

Maturity distribution

Based on the legal final maturity date



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Debt Payment Considerations

Overcollateralization and interest coverage tests

The rated debt benefits from certain structural features that require sequential mandatory redemption upon a breach of any overcollateralization or interest coverage test (see table 7).

Table 7

O/C and I/C tests

Class	Actual O/C (%)	Min. O/C required (%)	Min. I/C required (%)
B-R	140.85	130.85	120.00
C-R	129.87	121.87	115.00
D-R	121.95	115.95	110.00
E-R	113.64	108.64	N/A

O/C--Overcollateralization. I/C--Interest coverage. N/A--Not applicable.

Application Of Standard & Poor's CDO Monitor/Compliance With Standard & Poor's CDO Monitor Test

Standard & Poor's CDO Monitor is a tool that collateral managers use during the reinvestment period to determine if a particular trade or series of trades increases the risk to the rated liabilities.

The CDO Monitor Test will be considered passing if the results indicate that the current portfolio produces an SDR that is equal to or below the transaction's BDR. There is no requirement that the CDO Monitor Test be considered after the reinvestment period, or when reinvesting proceeds from the sale of a credit risk or a defaulted obligation or proceeds from an equity security.

For this transaction, the non-model version of CDO Monitor may be used as an alternative to the model-based approach. The non-model version is built on the foundation of six portfolio benchmarks, which are used to provide insight into the characteristics that inform the way S&P Global Ratings assesses credit quality. These benchmarks are meant to enhance transparency for investors and other CLO market participants by allowing them to compare metrics across transactions and assess changes within a given CLO over time (for more details, see "S&P Global Ratings' Updated Assumptions For CDO Monitor Non-Model Version," published June 21, 2019, and "Standard & Poor's Introduces Non-Model Version Of CDO Monitor," published Dec. 8, 2014).

Table 8 shows the benchmarks for Churchill Middle Market CLO IV Ltd. in the context of average values by vintage.

Table 8

CDO Monitor metrics

	Churchill Middle Market CLO IV Ltd.
S&P Global Ratings' weighted average rating factor(i)	3,832.56
Default rate dispersion(ii)	510.20
Obligor diversity measure(iii)	100.68
Industry diversity measure(iv)	18.96
Regional diversity measure(v)	1.00

Table 8

CDO Monitor metrics (cont.)

Churchill Middle Market CLO IV Ltd.	
Weighted average life (years)(vi)	3.20

(i)S&P Global Ratings' weighted average rating factor (SPWARF): The SPWARF is calculated by multiplying the par balance of each collateral obligation that has a 'CCC-' or higher rating from S&P Global Ratings by the S&P Global Ratings' rating factor, then summing the total for the portfolio, and then dividing the result by the aggregate principal balance of all collateral obligations included in the calculation. (ii)Default rate dispersion (DRD): The DRD is calculated by multiplying the par balance for each collateral obligation that has a 'CCC-' or higher rating from S&P Global Ratings by the absolute value of the difference between the S&P Global Ratings' rating factor and the SPWARF, then summing the total for the portfolio, and then dividing the result by the aggregate principal balance of the collateral obligations included in the calculation. (iii)Obligor diversity measure (ODM): The ODM is the measure of the effective number of obligors in the pool obtained by squaring the result for each obligor and taking the reciprocal of the sum of these squares [i.e., $1/\sum()^2$]. (iv)Industry diversity measure (IDM): The IDM is the effective number of industries in the pool obtained in the same way as the ODM. (v)Regional diversity measure (RDM): The RDM is the effective number of regions in the pool obtained in the same way as the ODM and IDM. (vi)Weighted average life: The portfolio's weighted average life is based on the remaining number of years to maturity for each loan.

Surveillance

S&P Global Ratings will maintain active surveillance on the rated debt until the debt matures or is retired, or until its credit ratings on the transaction have been withdrawn. The purpose of surveillance is to assess whether the rated debt is performing within the initial parameters and assumptions applied to each rating category. The issuer is required under the terms of the transaction documents to supply periodic reports and notices to S&P Global Ratings to maintain continuous surveillance on the rated debt. For more information on our CLO surveillance process, see "CLO Spotlight: S&P Global Ratings' Surveillance Process For Monitoring CLO Transactions," published Oct. 14, 2022.

Related Criteria

- General Criteria: Environmental, Social, And Governance Principles In Credit Ratings, Oct. 10, 2021
- Criteria | Structured Finance | General: Global Framework For Payment Structure And Cash Flow Analysis Of Structured Finance Securities, Dec. 22, 2020
- Criteria | Structured Finance | General: Methodology To Derive Stressed Interest Rates In Structured Finance, Oct. 18, 2019
- Criteria | Structured Finance | CDOs: Global Methodology And Assumptions For CLOs And Corporate CDOs, June 21, 2019
- Criteria | Structured Finance | Legal: U.S. Structured Finance Asset Isolation And Special-Purpose Entity Criteria, May 15, 2019
- Criteria | Structured Finance | General: Counterparty Risk Framework: Methodology And Assumptions, March 8, 2019
- Criteria | Structured Finance | General: Incorporating Sovereign Risk In Rating Structured Finance Securities: Methodology And Assumptions, Jan. 30, 2019
- Legal Criteria: Structured Finance: Asset Isolation And Special-Purpose Entity Methodology, March 29, 2017
- General Criteria: Guarantee Criteria, Oct. 21, 2016

- Criteria | Structured Finance | General: Global Framework For Assessing Operational Risk In Structured Finance Transactions, Oct. 9, 2014
- Criteria | Structured Finance | CDOs: CDOs Of Project Finance Debt: Global Methodology And Assumptions, March 19, 2014
- General Criteria: Global Investment Criteria For Temporary Investments In Transaction Accounts, May 31, 2012
- Criteria | Structured Finance | CDOs: Global CDOs Of Pooled Structured Finance Assets: Methodology And Assumptions, Feb. 21, 2012
- General Criteria: Principles Of Credit Ratings, Feb. 16, 2011
- Criteria | Structured Finance | CDOs: Surveillance Methodology For Global Cash Flow And Hybrid CDOs Subject To Acceleration Or Liquidation After An EOD, Sept. 2, 2009
- Criteria | Structured Finance | General: Structured Finance Criteria Introduced For Cayman Islands Special-Purpose Entities, July 18, 2002

Related Research

- Credit FAQ: A Closer Look At Uptier Priming And Asset Drop-Down Provisions In U.S. CLOs, July 26, 2023
- Global Structured Finance 2023 Outlook, Jan. 11, 2023
- Scenario Analysis: How Resilient Are Middle-Market CLO Ratings (2022 Update), Oct. 19, 2022
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- ESG Industry Report Card: Collateralized Loan Obligations, March 31, 2021
- Credit FAQ: Anatomy Of A Credit Estimate: What It Means And How We Do It, Jan. 14, 2021
- All You Need To Know About CDO Monitor, March 26, 2020
- Credit FAQ: Understanding S&P Global Ratings' Updated CLO And Corporate CDO Criteria, June 26, 2019
- CLO Spotlight: S&P Global Ratings' Updated Assumptions For CDO Monitor Non-Model Version, June 21, 2019
- Credit FAQ: Key Considerations For September 2018 Updates To CDO Evaluator Industry Codes, Sept. 26, 2018
- Global Structured Finance Scenario And Sensitivity Analysis 2016: The Effects Of The Top Five Macroeconomic Factors, Dec. 16, 2016
- New Version Of CDO Evaluator (7.1) Includes Updated Corporate Industry Codes, Sept. 13, 2016
- CLO Spotlight: How S&P Global Ratings Assesses Operational And Administrative Risks Of CLO Collateral Managers, April 19, 2016
- S&P Adds Transparency To Its Effective Date Process For CLOs, April 20, 2015
- How Typical CLO Document Provisions Affect Maintenance Of Collateral Characteristics For

Managed CLOs, Nov. 6, 2013

- CDO Spotlight: How Deferrable Assets In CLOs Are Treated Under Standard & Poor's Methodology, Oct. 1, 2012

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