

Sell-Side Solutions for Structured Finance

A wide depth & breadth of capabilities & customizable modules

Primary Markets – Key Benefits:

- Assist with structuring of deals and many types of transactions within CDOEdge, CDOnet and Structured Finance Workstation (SFW)
- » Gain transparency and visibility into a deal's waterfall structure, swaps, supports, capital structure and underlying collateral
- » Share a link to potential investors who can access deal information and run cashflow analytics through our web-based Structured Finance Portal.

Secondary Markets – Key Benefits:

- » Use our microservices to supplement bid lists and offer sheets with essential key deal and tranche level information
- » Leverage the vast amount of information in our Data Feeds to write research to disseminate to the market and keep current on recent trends
- » Utilize our APIs to enhance speed and scalability by performing multi-threaded deal analytics
- » Leverage cloud-based technologies to run price/yield analytics for a multitude of scenarios on the entire structured universe in a matter of moments

Delivery Methods



Structured Finance Application Programming Interface (API)

Analyze structured finance products by linking our structured finance data, asset/liability cash flows and analytics to custom in-house applications. Our credit and cash flow models cover global capital markets and asset classes including agency and non-agency RMBS, ABS, CMBS, CLOs and other esoteric structured products. Our API applies to a wide range of demanding use cases, from multi-threaded deal analytics to stochastic simulations. Our API integrations scale easily in most multi-server environments and can be implemented under various load balancing schemes.

Data Feeds

- » Includes detailed data on tranche, deal, and loan performance via hundreds of performance metrics derived from surveillance reports, third-party providers, and Moody's Analytics proprietary databases
- » Includes both historical and current data that are updated on a daily basis
- » Contains the same data used by Moody's Analytics software and in Moody's Analytics research, and undergoes multiple layers of checks and verification

Microservices

We offer advanced, customized solutions that can be delivered through easily consumable technologies. Our cloud-based analytics can quickly calculate prices, yields and DMs across the structured finance universe, and can be delivered through microservices in a nicely designed package. Everything is hosted by Moody's Analytics so there is little overhead and maintenance by the client.

| PRICE ANALYSIS: DM (BPS)/YIELD (%) | | | POWERED BY MOODY'S ANALYTICS' STRUCTURED FINANCE PORTAL | | | | | |
|------------------------------------|------------|-------------|---|-----------------|---------------------|--|--|--|
| Price | TM - 0 CPR | TM - 20 CPR | First Call | Next Call + 1YR | Call @ Reinv End | | | |
| 100.40 | 439 / 4.42 | 439 / 4.42 | 367 / 3.69 | 418 / 4.20 | 430 / 4.32 | | | |
| 100.60 | 436 / 4.38 | 435 / 4.38 | 327 / 3.29 | 404 / 4.06 | 422 / 4.24 | | | |
| 100.80 | 432 / 4.35 | 432 / 4.34 | 288 / 2.89 | 391/3.93 | 413 / 4.15 | | | |
| 101.00 | 429 / 4.31 | 428 / 4.30 | 248 / 2.49 | 377 / 3.79 | 405 / 4.07 | | | |
| 101.20 | 425 / 4.27 | 424 / 4.27 | 209 / 2.10 | 363 / 3.65 | 396 / 3.98 | | | |
| 101.40 | 422 / 4.24 | 421 / 4.23 | 170 / 1.70 | 350/3.51 | 388 / 3.90 | | | |
| 101.60 | 418 / 4.20 | 417 / 4.19 | 131 / 1.31 | 336/3.38 | 380 / 3.82 | | | |
| | | | | Click | ere for more option | | | |

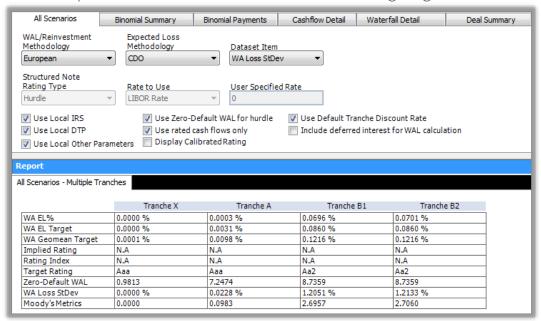
| DEAL ANALYSIS | | POWER | ED BY MO | ODY'S ANAL | YTICS' STRUC | CTURED FINAN | ICE PORTAL |
|---|-----------|-----------|----------|------------|--------------|--------------|-------------|
| Asset Price Distribution | Unpriced | <70 | 70-80 | 80-90 | 90-95 | 95-100 | >=100 |
| | - | 0.00% | 1.23% | 3.03% | 1.36% | 25.19% | 69.18% |
| Headline Industries* | % of | Deal | | Deal I | Exposure (l | JSD) | WA Price |
| CORP - Retail | | 2.87 | | | 12,196 | ,874 | 86.89 |
| Oil & Gas | | 1.44 | | | 6,134 | ,491 | 100.10 |
| Biggest Caa/CCC Assets | % of Deal | Rating* | Indust | try | | Current F | ace (USD) |
| Neiman Marcus Group Ltd LLC 2020 Term Loa | n 0.58 | Caa1 / CC | C CORP | - Retail | | | 2,436,709 |
| Avaya, Inc. Exit Term Loan B | 0.57 | B2 / CCC- | CORP | - Telecomi | munications | | 2,401,681 |
| | | | | | Oliele | h f | +: |
| | | | | | CIICK | here for m | ore option: |

| MANAGER ANALYSIS | POWERED BY MOODY'S ANALYTICS' STRUCTURED FINANCE PORTAL | | | | | | |
|---|---|-------------|------------------|------------------|--|--|--|
| | U.S. I | Manager | E | European Manager | | | |
| Current AUM (MM) | 1 | 2,535 \$ | | 4,802 € | | | |
| # of Deals | | 21 | | 1 | | | |
| | U.S. Manager | U.S. Cohort | European Manager | European Cohor | | | |
| Average Purchase Loan Spread (bps 12-mo trailing) | 335.30 | 355.08 | 348.59 | 336.8 | | | |
| Average Purchase Loan Price (12-mo trailing) | 99.53 | 99.48 | 99.81 | 99.8 | | | |
| Annualized Equity Return (%) | 16.96 | 16.80 | 15.14 | 16.3 | | | |
| Annualized Default Rate (%) | 0.39 | 0.65 | 0.78 | 0.1 | | | |
| | | | Click here | for more option | | | |

Our Structuring & Cashflow Modeling Products

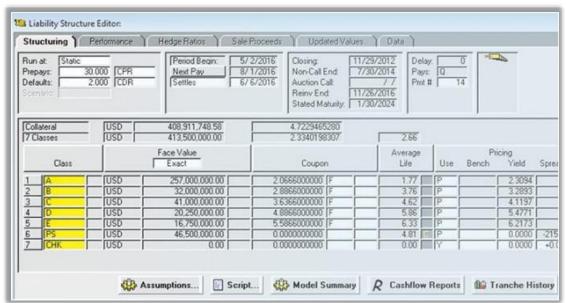
CDOEdge

CDOEdge has an intuitive and flexible user interface, as well as trends and optimization modules, which make this solution an ideal choice for CLO structurers and CLO managers. Loan warehouse providers can also use this solution to calculate optimized attachment/detachment and risk weightings.



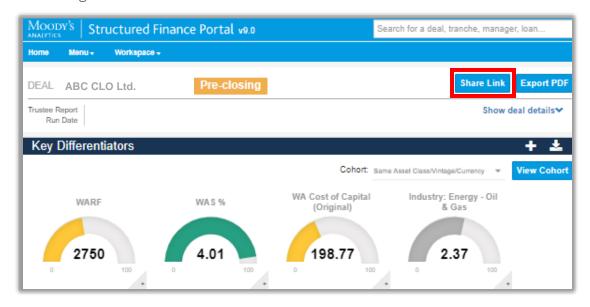
CDOnet and SFW Cash Flow Engines

- » CDOnet and SFW is a comprehensive cash flow suite that can run analytics across all structured finance products including CDO/CLO/ABS/MBS products
- » Both CDOnet and SFW cash flow forecasts allows for deterministic parameters such as CPR, CDR, recovery constants or vectors; stochastic parameters; and Moody's Analytics Economic Scenarios
- » Both solutions have a wide variety of potential uses due to their expansive list of capabilities and customizable modules



Universal Deal Sharing

- Create a link to your deal through the Structured Finance Portal and share with prospective investors free of charge
- Users can access deals through any web browser without having to download any software
- Easily share links to post-closing deal documents, comparative analytics, cashflows and price/yield tables
- Keep track of who accessed your deals and other essential activities for better transparency
- Model deals yourself using CDOnet/SFW or request express modeling service from one of our in-house experts free of charge



Find out more information about Moody's Analytics award winning structured finance products and solutions.



Evaluated Pricing Solutions: Calculate end-of-day prices for structured finance securities based on various pricing recipes across global structured asset classes



Investor and Issuer Solutions: Our end-to-end solution includes 500+ enhanced metrics, a sophisticated cash flow engine, global coverage, and advanced comparative analytics



Portfolio Analytics & ALM Solutions: Access structured cash flows models and data via APIs to calculate and report assets and liabilities under various economic scenarios



Risk & Regulatory Solutions: Leverage our proprietary interest rate, economic, credit and cash flow models to calculate advanced market risk measures and to assist with your regulatory needs, such as for CCAR, DFAST, IFRS9, and CECL

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