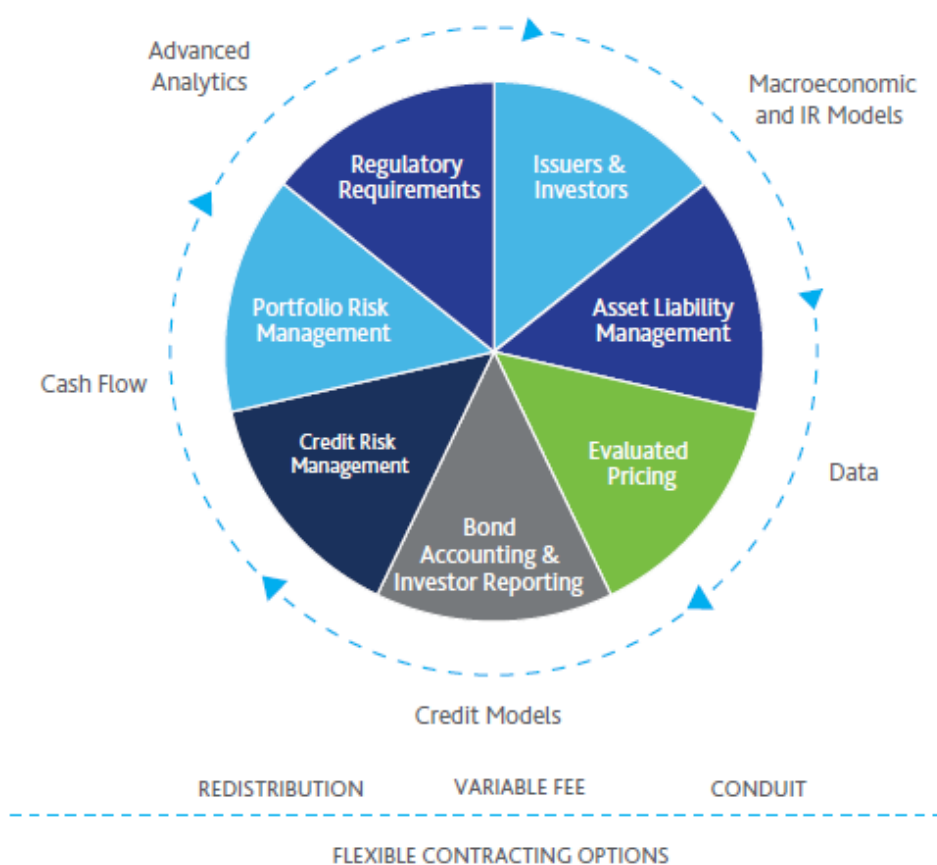








Moody's Analytics offers an end-to-end structured content solution with access to credit and cashflow models, economic assumptions, and interest rate models via flexible contracting options. Our cutting edge content delivery methods include local APIs, microservices (hosted APIs) and SFTP/HTTPS.

MA-SF API is integrated within other Moody's Analytics products, such as [ImpairmentStudio](#), [Axis](#), [RiskFrontier](#) and [RiskConfidence](#).



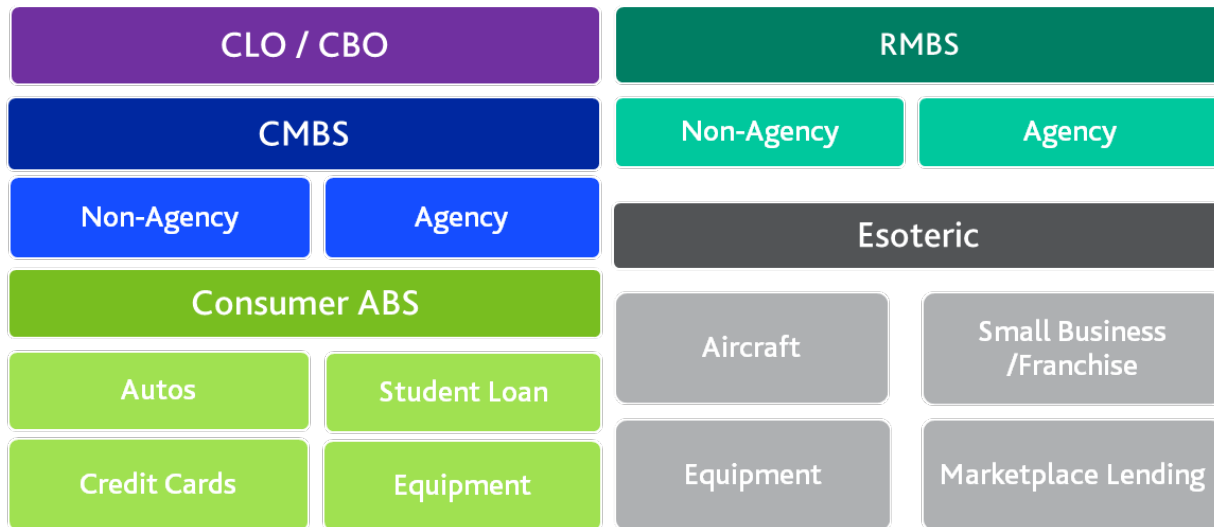
Product Offerings

We offer the following various products through our delivery channels:

 <p>APIs (On-Prem / SaaS)</p> <p>Multiple language library and SaaS seamlessly integrate with custom in-house applications</p>	 <p>Cashflows (50k+)</p> <p>Proprietary and complete database of waterfall models covering comprehensive global structured finance markets</p>	 <p>Credit Models (45+)</p> <p>Global credit models with predefined or custom macro economic variables such as interest rates, HPI, GDP, and unemployment</p>	 <p>User-defined Scenarios</p> <p>Create user-defined scenario forecasts of interest rates, prepayments, defaults, delinquencies and loan modifications</p>	 <p>Advanced Analytics</p> <p>Comprehensive Market Risk Metrics and Regulatory Calculations</p>	 <p>Data (24M+ Loans)</p> <p>Loan and pool performance data enhanced with proprietary and third party content set with an average history of 15+ years</p>
--	--	---	---	---	--

Access Moody's Analytics Deal Model Libraries for comprehensive global coverage of the Structured Finance universe

- » 50,000+ cashflow waterfall models
- » Moody's cashflow and credit models cover global capital markets and all major asset classes including agency and non-agency RMBS, ABS, CMBS, CDOs and other esoteric structured products
- » Deep breadth of deal coverage that is constantly improving through collaboration with our partners/clients, allowing us to provide new models prior to or at issuance
- » We maintain timely bond and collateral updates by working directly with trustees, servicers, issuers and other sources



Advanced Analytics

- » A comprehensive metrics suite for regulatory and accounting use cases, including SFA, SSFA, RWA, OTTI/OCI, AP/DP, SPPI, and ECL
- » Scenario-dependent cash flow forecasts metrics for portfolio risk assessments, such as average life, yield, asset swap spread, modified duration, convexity
- » Simulation-based market risk metrics such as OAS, market value projection, effective duration, by taking advantage of the integrated in-house interest rate simulation and credit models

Single Scenario				Simulation	
Accrued Interest	Average Life	Yield to Maturity	Yield to Worst	Government OAS	LIBOR OAS
Nominal Spread	Asset Swap Spread	Discount Margin	Z-spread (ZVO)	Price from OAS	Market Value Projection
Macaulay Duration	Modified Duration	Spread Duration	Duration to Worst	Effective Duration	Effective Convexity
DV01	DV100	CS01	Yield Value of 32 nd	Spread Duration	Internal Rate of Return (IRR)
Convexity	Spread Convexity	Price from Yield	Price from DM	First Loss	

Secure cross-platform solution with scalable hosted and local offerings

The MA-SF API has outperformed on a wide range of demanding use cases, from multi-threaded deal analytics to stochastic simulations.¹

Local platform

By offering support in both Windows and Linux, our local API integrations scale easily in a multi-server environment and can be implemented securely in production (“on-prem”). The API can be configured either to run analytics using loan level data, or to optimize performance by using rep-lines or aggregate pools.

Hosted platform (microservices)

Clients also have the flexibility to directly integrate with our hosted solutions (SaaS). We take pride in our technology architecture using AWS services and Kubernetes to provide our clients with scalable solutions and faster analytics. Whether the use case involves analytics or market data, our hosted microservices provide several end points for client integrations.

¹ Based on internal testing and client feedback

Solutions delivery matrix

	Local API	Hosted API
Platform Support		
Windows	✓	✓
Linux	✓	✓
Supported Languages		
C++	✓	✓
C# / .NET	✓	✓
Python	✓	✓
Java		✓
Developer Tools		
Documentation	✓	✓
Sample Code Solutions	✓	✓
Implementation Support	✓	✓

Our Partners

We have partnered with some of the leading organizations to successfully integrate our API solution within other platforms. These integrations cover diverse use cases such as accounting, asset/liability management, pricing, trading, portfolio management and insurance.

To learn more about all of our partners, please visit <https://www.moodyanalytics.com/microsites/sav-partners>.

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

Contact Details

Visit us at [moodyanalytics.com](https://www.moodyanalytics.com) or contact us at a location below.

AMERICAS

+1.212.553.1653

clientservices@moody.com

EMEA

+44.20.7772.5454

clientservices.emea@moody.com

ASIA (Excluding Japan)

+852.3551.3077

clientservices.asia@moody.com

JAPAN

+81.3.5408.4100

clientservices.japan@moody.com