

Proven Framework for Independent Valuations



Out of the Box Web Solution for Derivative Valuations & Risk

Principia SFP Software-as-a-Service (SaaS) is a proven, subscription based platform for the management of derivative and fixed income portfolios.

A comprehensive range of financial instruments and products can be structured, valued and managed on the platform.

For 15 years Principia SFP has been used by the buy-side to price and manage both vanilla instruments and more complex structures with embedded optionality.

Subtle nuances of these structures, such as tenor and basis spread adjustments can also be incorporated. Historical and daily market data is delivered as part of the standard package. Valuations can be calculated daily or on-demand, alongside cashflow analysis and powerful forecasting.

Complete Portfolio Management

- Manage derivative portfolios alongside fixed income assets or debt issuances
- Pricing, stress testing and cashflow analysis to support GASB and FASB hedge effectiveness
- Perform powerful, flexible hedge and risk attribution analysis on individual transactions, across portfolios or for separate accounts.

Independent Valuations

- Structure plain vanilla swaps to highly structured derivatives
- Embed optionality e.g. caps, digitals, daily accruals, amortizations and callable/cancellable features
- Capture pricing nuances associated with tenor, basis and cross currency spread adjustment
- Historical and daily closing data provided as standard: Yield curve data, FX rates, futures and volatilities
- Use models that incorporate OIS discounting and volatility smiles to enhance pricing accuracy.

Proactive Risk Management

- Stress yield curves (shocks and twists), volatilities, FX rates, models and cross product basis shifts
- Derivative counterparty credit exposure and VaR analysis
- Calculate risk sensitivities and analytics from DV01, convexity, theta and vega (kappa), to duration, average life, cashflows and OAS.

Streamlined Operations

- Maintain full trade, client and counterparty data
- Audit control and historical view of derivative and portfolio information.

Key	Type	PRODUCT_CLASS	Description	Maturity	Counterparty (R/O)
INTER-ABS111	ABS111	USDCMBS111M-03		25-Jun-2020	MERRILL LYNCH HOME EQUITY LOAN TRUST
STOCK_75_20	STOCK	US0077841007-20%		26-Mar-2011	BARCLAYS
CERO COUPON AMORTZPGS 00	STAMP	US000		01-Sep-2009	ORANGE HSE
BASED SWAP	SWAP	USDCMBS111M-03USDCMBS111M-03		01-Sep-2009	ORANGE HSE
CALLABLE RANGE ACCRUAL	SWAP	USDCMBS111M-03USDCMBS111M-03		01-Sep-2009	BANQUE PARIBAS
CANADIAN SWAP	SWAP	USDCMBS111M-03		26-Mar-2011	ORANGE HSE
CAP	SWAP	USDCMBS111M-03		01-Sep-2009	BONY
CDS	SWAP	USDCMBS111M-03		26-Mar-2011	AIG
CURRENCY SWAP	SWAP	USDCMBS111M-03		01-Sep-2009	WACHOVIA BANK
FIXED LEADING SWAP	SWAP	USDCMBS111M-03		01-Sep-2009	MERRILL
FX	SWAP	USDCMBS111M-03		01-Sep-2009	BONY
F.I. FORWARD	SWAP	USDCMBS111M-03		01-Sep-2009	ENERGY CORP
F.I. SWAP	SWAP	USDCMBS111M-03		01-Sep-2009	DEBILLE BANK
RANGE ACCRUAL	SWAP	USDCMBS111M-03		01-Sep-2009	ROYAL BANK OF SCOTLAND
SECURITIZED DEBIT	SWAP	USDCMBS111M-03		01-Sep-2009	AIG
SWAP INTERESTED CAP	SWAP	USDCMBS111M-03		01-Sep-2009	BONY
SWAP	SWAP	USDCMBS111M-03		01-Sep-2009	JP MORGAN CHASE BANK
COMMITTED REPO	REPO	USDCMBS111M-03		01-Sep-2009	USDCMBS111M-03
INTEREST	REPO	USDCMBS111M-03		01-Sep-2009	USDCMBS111M-03
INCOME NOTE	REPO	USDCMBS111M-03		01-Sep-2009	FIRST NATIONAL BANK OF CHICAGO
MEDIAN NOTE	REPO	USDCMBS111M-03		01-Sep-2009	ORANGE HSE
REPO	REPO	USDCMBS111M-03		01-Sep-2009	ROYAL BANK OF SCOTLAND
SOA SVY LIQUIDITY	REPO	USDCMBS111M-03		01-Sep-2009	BANK OF NY
COMMERCIAL PAPER	REPO	USDCMBS111M-03		01-Sep-2009	BONY

Assets viewed alongside derivatives for consolidated portfolio analysis.

For more information about Principia SFP, contact us:

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Proven Framework for Independent Valuations

Principia Structured Finance Platform

Available as an installed solution or via the web, Principia SFP is the benchmark operational solution for the management of structured finance investments. No other commercial or in-house system offers the same breadth of functionality to support fixed income, complex structured credit investments, as well as the spectrum of funding and hedging instruments.

With Principia, businesses can gain a deeper insight into their investments on a unified platform, proactively manage and monitor risk exposures, demonstrate due diligence and increase overall efficiencies across the credit investment business.

A fragmented view...



or a single focused solution?



Organizations can employ out-of-the-box investment analysis, portfolio management, risk and operational functionality, or rapidly implement business specific workflows, reports and processes using Principia's powerful customization framework.

Software-as-a-Service

SaaS provides access to the breadth of Principia SFP, limiting customization and infrastructure costs. The software is hosted by Principia and accessed on the web via a monthly subscription.

Deeper Investment Analysis

- Unify performance and deal data from any source, for on-demand portfolio analysis
- Assess future performance with advanced cashflow analytics and forecasting
- Slice and dice by any combination of collateral, deal or portfolio characteristics.

Proactive Risk Management

- Analyze, monitor and report on collateral performance
- Stress test by default, delinquency, prepayment or interest rates
- Process and disseminate risk reports for any stratification of the business
- Reduce barriers to maintaining investor and regulatory compliance.

Streamlined Operations

- Centrally manage multiple portfolios to increase efficiency and transparency
- Integrate portfolio management, risk control and accounting on a single operational backbone
- Eliminate inconsistencies from front to back office with audit and workflow control.

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