

Credit Analytics Product and Functional Coverage

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Product Coverage

Base Type		Variants and Details
	•	Bullet
		o Fixed Coupon
		o Floating Rate
		 Capped Coupon floor and ceiling
	•	Amortizing Bonds
		 Bonds with sinking funds
		 Deterministic coupon and notional schedules
		 Schedules specified as pay down or outstanding
		 Accreting and capitalizing bonds
		 Step up and Step down coupon schedules
	•	Bonds with embedded schedules
		o European Call or Put Schedules
Bonds		o Bermudan/American Call/Put Schedules
Bonds		 Concurrent and overlapping Calls and Puts
		 Fix to float on exercise
	•	Differing coupon, redemption, and trade/quote currencies
	•	Custom bonds
		o Custom coupon and notional schedules (pay down or
		outstanding)
		 Custom coupon period generation functionality
		o Custom quoting/settlement parameters
		o Custom rates/credit/currency/fixing parameters
		o Custom embedded option schedules (concurrent put/call,
		fix to float, American exercise dates etc)
	•	TSY marked bonds – linkable to more than one treasury
		benchmark

	•	Varying contract details
		 Vanilla fixed coupon CDS
		 Amortizing notional CDS
		 Fixed recovery CDS
	•	Standardized CDS varieties
Credit Default		o ISDA style, with variants for NA SNAC, EU standard
Swap (CDS)		CDS, EM's STEM contract
		 Standard 100 bps/500 bps with upfront quotes
		 Support for old style pure running CDS
	•	Custom CDS
		 Notional/recovery schedule
		 Highly flexible period generation and settlement rules
	•	Supports all the standard CDX indices traded, including CDX
		NA variants (on-the run and off the runs varieties), and
		iTRAXX EUR series, different versions and tenors
		o CDX NA – IG, HY, HY.B, HY.BB, HVOL, XO, EM
		o LCDX, SovX, Trac-X, LevX, TRACERS (Check CDX
Credit Default		Coverage for the comprehensive list)
Swap Index (CDX)		o ITRAXX EUR – IG, HY, HVOL, XO, NON_FIN,
		FIN_SNR, FIN_SUB
	•	Custom CDS baskets
		 Customizable components and their weights
		 Customizable outstanding notional and coupon
		schedules, as well as component amortization schedules
	•	Support for the standard iShares ETF
	•	Support for the creation of customizable bond baskets
Bond Basket		o Customizable components and their weights
		 Customizable outstanding notional and coupon
		schedules, as well as component amortization schedules

Fixed Income Analytics Coverage

Category	Details
Holiday	 Support for holiday schedules of 126 jurisdictions
Day Count Conventions	■ Supports 30+ day count conventions – all the main DCC
Date Adjustment and Roll	 Supports 7 different date adjustment/date roll conventions
Date generation	 Generation of the standard IR product schedules (Cash/EDF/IRS/treasury) and credit products (CDS/CDX/bond) in accordance with typical generation rules (e.g., IMM) Forward/backward generation with customizable period pay/accrual/reset dates

Calculated Analytical Measures Coverage

As a general note, product generates three versions of every measure – the base (of non-prefixed) version, the "Fair" of theoretical version, and the "market" version. Further, if the market version is available, the base defaults to that version; otherwise, it defaults to the "fair" version.

Exact measure names are given in the columns below – these names are to be used exactly as listed when querying for a given measure for any purpose (including measure based calibration).

Product	Measure
	ASW, AssetSwapSpread, FairASW, FairAssetSwapSpread,
	MarketASW, MarketAssetSwapSpread, MarketASW,
	MarketAssetSwapSpread
	Accrued01, FairAccrued01, MarketAccrued01
	BondBasis, FairBondBasis, MarketBondBasis
	CleanDV01, FairCleanDV01, MarketCleanDV01
	CleanPV, FairCleanPV, MarketCleanPV
D 1	CleanPrice, FairCleanPrice, MarketCleanPrice
Bond	Convexity, FairConvexity, MarketConvexity
	CreditBasis, FairCreditBasis, MarketCreditBasis
	 CreditRisklessParPV, FairCreditRisklessParPV,
	MarketCreditRisklessParPV
	 CreditRisklessPrincipalPV, FairCreditRisklessPrincipalPV,
	MarketCreditRisklessPrincipalPV
	CreditRiskyParPV, FairCreditRiskyParPV, MarketCreditRiskyParPV
	CreditRiskyPrincipalPV, FairCreditRiskyPrincipalPV,

MarketCreditRiskyPrincipalPV

- DV01, FairDV01, MarketDV01
- DefaultExposure, FairDefaultExposure, MarketDefaultExposure
- DefaultExposureNoRec, FairDefaultExposureNoRec, MarketDefaultExposureNoRec
- DirtyDV01, FairDirtyDV01, MarketDirtyDV01
- DirtyPV, FairDirtyPV, MarketDirtyPV
- DirtyPrice, FairDirtyPrice, MarketDirtyPrice
- Duration, FairDuration, MarketDuration
- ExpectedRecovery, FairExpectedRecovery, MarketExpectedRecovery
- FirstCouponDate, FairFirstCouponRate, MarketFirstCouponRate
- FirstIndexRate, FairFirstIndexRate, MarketFirstIndexRate
- GSpread, FairGSpread, MarketGSpread
- ISpread, FairISpread, MarketISpread
- LossOnInstantaneousDefault, FairLossOnInstantaneousDefault, MarketLossOnInstantaneousDefault
- PV, FairPV, MarketPV
- ParPV, FairParPV, MarketParPV
- ParSpread, FairParSpread, MarketParSpread
- Price, FairPrice, MarketPrice
- PrincipalPV, FairPrincipalPV, MarketPrincipalPV
- RecoveryPV, FairRecoveryPV, MarketRecoveryPV
- RisklessCleanCouponPV, FairRisklessCleanCouponPV, MarketRisklessCleanCouponPV
- RisklessCleanDV01, FairRisklessCleanDV01, MarketRisklessCleanDV01
- RisklessCleanPV, FairRisklessCleanPV, MarketRisklessCleanPV
- RiskyCleanCouponPV, FairRiskyCleanCouponPV, MarketRiskyCleanCouponPV
- RiskyCleanDV01, FairRiskyCleanDV01, MarketRiskyCleanDV01

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 Clean DV01 Clean Price Clean Price Default Free Bond Basket Clean PV Clean PV Default Free Convexity Coupon PV Dirty DV01 Dirty Price 		■ Accrued 01
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Bond Basket Clean PV Clean PV Default Free Convexity Coupon PV Dirty DV01 Dirty Price		 Clean Price
 Clean PV Default Free Convexity Coupon PV Dirty DV01 Dirty Price 		 Clean Price Default Free
 Convexity Coupon PV Dirty DV01 Dirty Price 	Bond Basket	■ Clean PV
 Coupon PV Dirty DV01 Dirty Price 		Clean PV Default Free
Dirty DV01Dirty Price		Convexity
■ Dirty Price		Coupon PV
		■ Dirty DV01
 Dirty Price Default Free 		■ Dirty Price
		 Dirty Price Default Free

- Dirty PV
- Dirty PV Default Free
- Duration
- DV01
- Expected Recovery
- Fair Clean DV01
- Fair Clean Price
- Fair Clean Price Default Free
- Fair Clean PV
- Fair Clean PV Default Free
- Fair Credit Yield Basis
- Fair Dirty DV01
- Fair Dirty Price
- Fair Dirty Price Default Free
- Fair Dirty PV
- Fair Dirty PV Default Free
- Fair G Spread
- Fair I Spread
- Fair Notional PV
- Fair Par Coupon
- Fair Price
- Fair Price Default Free
- Fair PV
- Fair Spread over Treasury benchmark
- Fair Upfront
- Fair Yield To Maturity
- Fair Yield To Maturity Default Free
- Fair Yield To Maturity Default Free Duration
- Fair Yield To Worst
- Fair Yield To Worst Date
- Fair Yield To Worst Default Free

- Fair Yield To Worst Default Free Convexity
- Fair Yield To Worst Default Free Date
- Fair Yield To Worst Default Free Duration
- Fair Yield To Worst Default Free Factor
- Fair Yield To Worst Convexity
- Fair Yield To Worst Duration
- Fair Yield To Worst Factor
- Fair Z Spread
- First Coupon Index
- First Index Rate
- G Spread
- I Spread
- Market Credit Yield Basis
- Market Clean Price
- Market Dirty Price
- Market Price
- Market Price Default Free
- Market Yield to Maturity
- Market Yield To Maturity Convexity
- Market Yield To Maturity Duration
- Market Yield To Worst
- Market Yield To Worst Convexity
- Market Yield To Worst Date
- Market Yield To Worst Duration
- Market Yield To Worst Factor
- Market I Spread
- Market G Spread
- Market Z Spread
- Principal PV
- Recovery PV
- Spread over Treasury benchmark

	Yield to Maturity
	Yield To Maturity Convexity
	Yield To Maturity Convexity Yield To Maturity Duration
	Yield To Worst
	Yield To Worst Convexity
	Yield To Worst Date Yield To Worst Date
	Yield To Worst Duration
	 Yield To Worst Factor
	■ Z Spread
	 Accrued, Fair Accrued, Market Accrued
	 Accrued 01, Fair Accrued 01, Market Accrued 01
	 Clean DV01, Fair Clean DV01, Market Clean DV01
	 Clean Price, Fair Clean Price, Market Clean Price
	 Clean PV, Fair Clean PV, Market Clean PV
	 Dirty PV, Fair Dirty PV, Market Dirty PV
	DV01, Fair DV01, Market DV01
	 Expected Loss, Fair Expected Loss, Market Expected Loss
an a	 Expected Loss No Recovery, Fair Expected Loss No Recovery, Market
CDS	Expected Loss No Recovery
	 Loss on Instantaneous Default, Fair Loss on Instantaneous Default,
	Market Loss on Instantaneous Default
	 Loss PV, Fair Loss PV, Market Loss PV
	 Par Spread, Fair Par Spread, Market Par Spread
	 Premium PV, Fair Premium PV, Market Premium PV
	 Price, Fair Price, Market Price
	 PV, Fair PV, Market PV
	 Upfront, Fair Upfront, Market Upfront
	Accrued
	Accrued 01
CDX	Calculation Time
	Clean DV01
	- Cicali D v VI

- Clean Price
- Clean PV
- Dirty PV
- DV01
- Expected Loss
- Fair Premium
- Loss PV
- Premium PV
- Price
- PV
- Upfront

Calculated Risk Measures Coverage

Product	Measure
	■ Bond G Spread PV 01
	 Bond I Spread PV 01
	 Bond Price Bumped PV 01
	 Bond Yield Bumped PV 01
	 Bond TSY Spread PV 01
	■ Bond Z Spread PV 01
	 Parallel Bumped Credit PV 01
	 Parallel Bumped Credit PV Gamma
	Parallel Bumped IR PV 01
Bond	 Parallel Bumped IR PV Gamma
Bond	 Parallel Bumped Recovery Rate PV 01
	 Parallel Bumped RR PV Gamma
	 Parallel 10% Credit Spread Widening PV Change
	 Tenor Bumped Credit PV 01
	 Tenor Bumped Credit PV Gamma (Same Node)
	 Tenor Bumped IR PV 01
	 Tenor Bumped IR PV Gamma (Same Node)
	 Tenor Bumped Recovery Rate PV 01
	 Tenor Bumped RR PV Gamma (Same Node)
	 FX Spot PV 01 (as applicable)
	■ Flat G Spread PV 01
	■ Flat I Spread PV 01
	 Flat Price Bumped PV 01
Bond Basket	 Flat Yield Bumped PV 01
	Flat TSY Spread PV 01
	■ Flat Z Spread PV 01
	 Flat Parallel Bumped Credit PV 01

- Flat Parallel Bumped Credit PV Gamma
- Flat Parallel Bumped IR PV 01
- Flat Parallel Bumped IR PV Gamma
- Flat Parallel Bumped Recovery Rate PV 01
- Flat Parallel Bumped RR PV Gamma
- Flat Parallel 10% Credit Spread Widening PV Change
- Component Bond G Spread PV 01
- Component Bond I Spread PV 01
- Component Bond Price Bumped PV 01
- Component Bond Yield Bumped PV 01
- Component Bond TSY Spread PV 01
- Component Bond Z Spread PV 01
- Component Parallel Bumped Credit PV 01
- Component Parallel Bumped Credit PV Gamma
- Component Parallel Bumped IR PV 01
- Component Parallel Bumped IR PV Gamma
- Component Parallel Bumped Recovery Rate PV 01
- Component Parallel Bumped RR PV Gamma
- Component Parallel 10% Credit Spread Widen
- Flat Tenor Bumped Credit PV 01
- Flat Tenor Bumped Credit PV Gamma (Same Node)
- Flat Tenor Bumped IR PV 01
- Flat Tenor Bumped IR PV Gamma (Same Node)
- Flat Tenor Bumped Recovery Rate PV 01
- Flat Tenor Bumped RR PV Gamma (Same Node)
- Component Tenor Bumped Credit PV 01
- Component Tenor Bumped Credit PV Gamma (Same Node)
- Component Tenor Bumped IR PV 01
- Component Tenor Bumped IR PV Gamma (Same Node)
- Component Tenor Bumped Recovery Rate PV 01
- Component Tenor Bumped RR PV Gamma (Same Node)

	■ FX Spot PV 01 (as applicable)
	Parallel Bumped Credit Fair Premium 01
	Parallel Bumped Credit Fair Premium Gamma
	■ Parallel Bumped Credit PV 01
	Parallel Bumped Credit PV Gamma
	 Parallel Bumped Credit Upfront 01
	Parallel Bumped Credit Upfront Gamma
	Parallel Bumped IR Fair Premium 01
	 Parallel Bumped IR Fair Premium Gamma
	 Parallel Bumped IR PV 01
	 Parallel Bumped IR PV Gamma
	■ Parallel Bumped IR Upfront 01
	 Parallel Bumped IR Upfront Gamma
	 Parallel Bumped Recovery Rate Fair Premium 01
	 Parallel Bumped Recovery Rate Fair Premium Gamma
CDS	 Parallel Bumped Recovery Rate PV 01
CDS	 Parallel Bumped Recovery Rate PV Gamma
	 Parallel Bumped Recovery Rate Upfront 01
	 Parallel Bumped Recovery Rate Upfront Gamma
	 Parallel 10% Credit Spread Widening PV Change
	 Tenor Bumped Credit Fair Premium 01
	 Tenor Bumped Credit Fair Premium Gamma (Same Node)
	■ Tenor Bumped Credit PV 01
	 Tenor Bumped Credit PV Gamma (Same Node)
	■ Tenor Bumped Credit Upfront 01
	 Tenor Bumped Credit Upfront Gamma (Same Node)
	 Tenor Bumped IR Fair Premium 01
	■ Tenor Bumped IR Fair Premium Gamma (Same Node)
	■ Tenor Bumped IR PV 01
	 Tenor Bumped IR PV Gamma (Same Node)
	■ Tenor Bumped IR Upfront 01

	■ Tenor Bumped IR Upfront Gamma (Same Node)
	■ Tenor Bumped Recovery Rate Fair Premium 01
	■ Tenor Bumped Recovery Rate Fair Premium Gamma (Same Node)
	■ Tenor Bumped Recovery Rate PV 01
	■ Tenor Bumped Recovery Rate PV Gamma (Same Node)
	■ Tenor Bumped Recovery Rate Upfront 01
	■ Tenor Bumped Recovery Rate Upfront Gamma (Same Node)
	Flat Parallel Bumped Credit Fair Premium 01
	Flat Parallel Bumped Credit Fair Premium Gamma
	■ Flat Parallel Bumped Credit PV 01
	Flat Parallel Bumped Credit PV Gamma
	Flat Parallel Bumped Credit Upfront 01
	Flat Parallel Bumped Credit Upfront Gamma
	Flat Parallel Bumped IR Fair Premium 01
	Flat Parallel Bumped IR Fair Premium Gamma
	Flat Parallel Bumped IR PV 01
	Flat Parallel Bumped IR PV Gamma
	■ Flat Parallel Bumped IR Upfront 01
CDV	Flat Parallel Bumped IR Upfront Gamma
CDX	Flat Parallel Bumped Recovery Rate Fair Premium 01
	Flat Parallel Bumped Recovery Rate Fair Premium Gamma
	 Flat Parallel Bumped Recovery Rate PV 01
	Flat Parallel Bumped Recovery Rate PV Gamma
	Flat Parallel Bumped Recovery Rate Upfront 01
	Flat Parallel Bumped Recovery Rate Upfront Gamma
	 Flat Parallel 10% Credit Spread Widening PV Change
	 Component Parallel Bumped Credit Fair Premium 01
	Component Parallel Bumped Credit Fair Premium Gamma
	 Component Parallel Bumped Credit PV 01
	 Component Parallel Bumped Credit PV Gamma
	 Component Parallel Bumped Credit Upfront 01

- Component Parallel Bumped Credit Upfront Gamma
- Component Parallel Bumped IR Fair Premium 01
- Component Parallel Bumped IR Fair Premium Gamma
- Component Parallel Bumped IR PV 01
- Component Parallel Bumped IR PV Gamma
- Component Parallel Bumped IR Upfront 01
- Component Parallel Bumped IR Upfront Gamma
- Component Parallel Bumped Recovery Rate Fair Premium 01
- Component Parallel Bumped Recovery Rate Fair Premium Gamma
- Component Parallel Bumped Recovery Rate PV 01
- Component Parallel Bumped Recovery Rate PV Gamma
- Component Parallel Bumped Recovery Rate Upfront 01
- Component Parallel Bumped Recovery Rate Upfront Gamma
- Component Parallel 10% Credit Spread Widening PV Change
- Flat Tenor Bumped Credit Fair Premium 01
- Flat Tenor Bumped Credit Fair Premium Gamma (Same Node)
- Flat Tenor Bumped Credit PV 01
- Flat Tenor Bumped Credit PV Gamma (Same Node)
- Flat Tenor Bumped Credit Upfront 01
- Flat Tenor Bumped Credit Upfront Gamma (Same Node)
- Flat Tenor Bumped IR Fair Premium 01
- Flat Tenor Bumped IR Fair Premium Gamma (Same Node)
- Flat Tenor Bumped IR PV 01
- Flat Tenor Bumped IR PV Gamma (Same Node)
- Flat Tenor Bumped IR Upfront 01
- Flat Tenor Bumped IR Upfront Gamma (Same Node)
- Flat Tenor Bumped Recovery Rate Fair Premium 01
- Flat Tenor Bumped Recovery Rate Fair Premium Gamma (Same Node)
- Flat Tenor Bumped Recovery Rate PV 01
- Flat Tenor Bumped Recovery Rate PV Gamma (Same Node)
- Flat Tenor Bumped Recovery Rate Upfront 01

- Flat Tenor Bumped Recovery Rate Upfront Gamma (Same Node)
- Component Tenor Bumped Credit Fair Premium 01
- Component Tenor Bumped Credit Fair Premium Gamma (Same Node)
- Component Tenor Bumped Credit PV 01
- Component Tenor Bumped Credit PV Gamma (Same Node)
- Component Tenor Bumped Credit Upfront 01
- Component Tenor Bumped Credit Upfront Gamma (Same Node)
- Component Tenor Bumped IR Fair Premium 01
- Component Tenor Bumped IR Fair Premium Gamma (Same Node)
- Component Tenor Bumped IR PV 01
- Component Tenor Bumped IR PV Gamma (Same Node)
- Component Tenor Bumped IR Upfront 01
- Component Tenor Bumped IR Upfront Gamma (Same Node)
- Component Tenor Bumped Recovery Rate Fair Premium 01
- Component Tenor Bumped Recovery Rate Fair Premium Gamma (Same Node)
- Component Tenor Bumped Recovery Rate PV 01
- Component Tenor Bumped Recovery Rate PV Gamma (Same Node)
- Component Tenor Bumped Recovery Rate Upfront 01
- Component Tenor Bumped Recovery Rate Upfront Gamma (Same Node)