CreditAnalytics Product and Functional Coverage

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Product Coverage

Base Type	Variants and Details
	• Bullet
	o Fixed Coupon
	 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
	 European Call or Put Schedules
Bonds	o Bermudan/American Call/Put Schedules
Donus	 Concurrent and overlapping Calls and Puts
	 Fix to float on exercise
	Differing coupon, redemption, and trade/quote currencies
	Custom bonds
	 Custom coupon and notional schedules (pay down or
	outstanding)
	 Custom coupon period generation functionality
	 Custom quoting/settlement parameters
	 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
Credit Default	iTRAXX EUR variants
Swap Index (CDX)	Custom CDS baskets
Swap fildex (CDA)	 Customizable components and their weights
	 Customizable outstanding notional and coupon
	schedules, as well as component amortization schedules
	Support for the standard iShares ETF
Bond Basket	Support for the creation of customizable bond baskets
	 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

	RiskyCleanPV, FairRiskyCleanPV, MarketRiskyCleanPV
	RisklessDirtyCouponPV, FairRisklessDirtyCouponPV,
	MarketRisklessDirtyCouponPV
	RisklessDirtyDV01, FairRisklessDirtyDV01, MarketRisklessDirtyDV01
	RisklessDirtyPV, FairRisklessDirtyPV, MarketRisklessDirtyPV
	RiskyDirtyCouponPV, FairRiskyDirtyCouponPV,
	MarketRiskyDirtyCouponPV
	RiskyDirtyDV01, FairRiskyDirtyDV01, MarketRiskyDirtyDV01
	RiskyDirtyPV, FairRiskyDirtyPV, MarketRiskyDirtyPV
	TSYSpread, FairTSYSpread, MarketTSYSpread
	WorkoutDate, FairWorkoutDate, MarketWorkoutDate
	WorkoutFactor, FairWorkoutFactor, MarketWorkoutFactor
	WorkoutType, FairWorkoutType, MarketWorkoutType
	WorkoutYield, FairWorkoutYield, MarketWorkoutYield
	Yield, FairYield, MarketYield
	ZSpread, FairZSpread, MarketZSpread
	MarktInputType=???
	 Accrued
	■ Accrued 01
	 Calculation Time
	■ Clean DV01
	■ Clean Price
	Clean Price Default Free
Bond Basket	■ Clean PV
	 Clean PV Default Free
	Convexity
	■ Coupon PV
	■ Dirty DV01
	 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

Pield To Maturity Convexity Yield To Maturity Duration Yield To Worst Yield To Worst Convexity Yield To Worst Date Yield To Worst Duration Yield To Worst Factor Z Spread Accrued Accrued Clean DV01 Clean Price Clean PV Dirty PV CDS Premium PV Price PV Upfront Accrued Accrued Accrued CDX		Yield to Maturity
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- Z Spread - Accrued - Accrued 01 - Calculation Time - Clean DV01 - Clean Price - Clean PV - Dirty PV - Dirty PV CDS - DV01 - Expected Loss - Fair Premium - Loss PV - Premium PV - Price - PV - Upfront - Accrued - Accrued 01 - Calculation Time CDX - Clean DV01 - Clean PV01 - Clean PV01 - Clean Price - Clean PV		Yield To Worst Duration
- Accrued - Accrued 01 - Calculation Time - Clean DV01 - Clean Price - Clean PV - Dirty PV - Dirty PV - Dirty PV - Expected Loss - Fair Premium - Loss PV - Premium PV - Price - PV - Upfront - Accrued - Accrued - Accrued - Accrued 01 - Calculation Time - CDX - Clean DV01 - Clean PV - Clean PV		Yield To Worst Factor
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Premium PV Price PV Upfront Accrued Accrued Calculation Time CDX Clean DV01 Clean Price Clean PV		■ Fair Premium
Price PV Upfront Accrued Accrued Calculation Time CDX Clean DV01 Clean Price Clean PV		■ Loss PV
PV Upfront Accrued Accrued 01 Calculation Time CDX Clean DV01 Clean Price Clean PV		■ Premium PV
 Upfront Accrued Accrued 01 Calculation Time CDX Clean DV01 Clean Price Clean PV 		■ Price
 Accrued Accrued 01 Calculation Time CDX Clean DV01 Clean Price Clean PV 		■ PV
 Accrued 01 Calculation Time CDX Clean DV01 Clean Price Clean PV 		■ Upfront
CDX Clean DV01 Clean Price Clean PV		■ Accrued
CDX		■ Accrued 01
Clean PriceClean PV		 Calculation Time
■ Clean PV	CDX	■ Clean DV01
		 Clean Price
 Dirty PV 		■ 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
Dolla	 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)

	EV Cnot DV 01 (or applicable)
	■ 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
CDC	 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
	1 1

	■ 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)