

Counterparty exposure measures such as PFE, EE, EPE, & ENE

XVA pricing adjustments – CVA, DVA, KVA, FVA, COLVA & other XVAs

Real-time calculations & incremental measures for pre-trade decision support

Regulatory & accounting compliance, including Basel III and SA-CCR

XVA trading & hedging

FEATURES

- Unilateral or bilateral XVAs with deal price, deal aging, collateral posting and netting agreements
- Scenario analysis and stress testing to see impact of different market conditions on exposure profiles and counterparty risk measures
- Scalable server architecture can handle millions of trades
- Import trade, market and reference data from multiple trading and risk systems
- Flexible analytics platform allows for easy integration of new trade types (including exotics) and customization of pricing models, curves and calibration
- Consistent model calibration for both market scenarios and deal prices
- Web-based, easy-to-use interface is available on any browser or device

From the move to SA-CCR capital calculation and the subsequent rise of KVA costs to the evolving shift from CVA and increased focus on MVA, managing the impacts of regulatory capital has become vital in banking. And in this ever-changing regulatory environment, XVA calculations continue to have significant impact on profitability and risk management across the enterprise. Now more than ever, firms must actively manage their impacts from pre-trade through to regulatory reporting, which requires transparency, sound analytics, standardized data and a consistent modeling framework.

Whether seeking to meet regulatory requirements, hedging or actively trading your XVA positions, Numerix Oneview XVA provides an award-winning, complete, real-time solution for managing XVA pricing adjustments and their impact on counterparty risk, collateral and profitability across the institution.

Numerix Oneview XVA

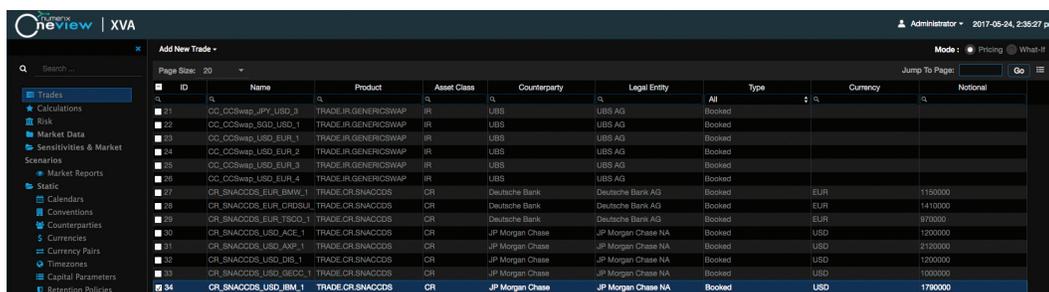
Underpinned by our market tested cross-asset analytic library, Oneview XVA gives users the ability to calculate, analyze and limit exposures across business units and minimize capital charges for Basel III and SA-CCR compliance, with fast and accurate PFE, CVA/DVA, KVA, COLVA and FVA calculations, using an accelerated Monte Carlo simulation engine.

Oneview XVA lives on the Numerix Oneview Enterprise Platform, the next generation pricing, risk, analysis and trade management platform designed for the next evolution of the capital markets. Applications like Oneview XVA are the building blocks of this dynamic platform, allowing enterprises to customize the framework to meet their business needs.

Capabilities

Oneview XVA enables users to:

- Calculate counterparty risk measures – CVA/DVA, KVA, COLVA, FVA, PFE, EE, EPE, ENE and other XVA pricing adjustments
- Analyze “what if” trades to see incremental XVA for different counterparties
- Monitor exposure limits of traders, checking limit utilization and sending alerts when limits are breached
- “Slice and dice” calculation results in real-time to create custom reports and graphically visualize the results
- Determine collateral values and initial margin requirements, to optimize collateral usage
- Comply with accounting and regulatory requirements, including Basel III, SA-CCR and more.
- Trade and hedge XVAs
- Calculate and analyze the marginal impact of exercising break clauses at the portfolio level



ID	Name	Product	Asset Class	Counterparty	Legal Entity	Type	Currency	Notional
21	CO_CDSwap_JPY_USD_3	TRADE.IR.GENERICSWAP	IR	UBS	UBS AG	Booked		
22	CO_CDSwap_SGD_USD_1	TRADE.IR.GENERICSWAP	IR	UBS	UBS AG	Booked		
23	CO_CDSwap_USD_EUR_1	TRADE.IR.GENERICSWAP	IR	UBS	UBS AG	Booked		
24	CO_CDSwap_USD_EUR_2	TRADE.IR.GENERICSWAP	IR	UBS	UBS AG	Booked		
25	CO_CDSwap_USD_EUR_3	TRADE.IR.GENERICSWAP	IR	UBS	UBS AG	Booked		
26	CO_CDSwap_USD_EUR_4	TRADE.IR.GENERICSWAP	IR	UBS	UBS AG	Booked		
27	CR_SNACDDS_EUR_BMW_1	TRADE.CR.SNACDDS	CR	Deutsche Bank	Deutsche Bank AG	Booked	EUR	1150000
28	CR_SNACDDS_EUR_CRSUL_1	TRADE.CR.SNACDDS	CR	Deutsche Bank	Deutsche Bank AG	Booked	EUR	1410000
29	CR_SNACDDS_EUR_TSCD_1	TRADE.CR.SNACDDS	CR	Deutsche Bank	Deutsche Bank AG	Booked	EUR	870000
29	CR_SNACDDS_USD_AGE_1	TRADE.CR.SNACDDS	CR	JP Morgan Chase	JP Morgan Chase NA	Booked	USD	1200000
31	CR_SNACDDS_USD_APS_1	TRADE.CR.SNACDDS	CR	JP Morgan Chase	JP Morgan Chase NA	Booked	USD	2120000
32	CR_SNACDDS_USD_DIB_1	TRADE.CR.SNACDDS	CR	JP Morgan Chase	JP Morgan Chase NA	Booked	USD	1200000
33	CR_SNACDDS_USD_GECO_1	TRADE.CR.SNACDDS	CR	JP Morgan Chase	JP Morgan Chase NA	Booked	USD	1000000
34	CR_SNACDDS_USD_IIM_1	TRADE.CR.SNACDDS	CR	JP Morgan Chase	JP Morgan Chase NA	Booked	USD	1790000

Benefits

Real-time results for fast trading and risk decisions

- Risk-adjusted pre-trade pricing
- “What-if” trades with pre-trade incremental XVAs
- Calculations can be distributed to a grid or cloud for maximum performance

Optimize counterparty choices and reduce counterparty risk

- Pre-trade decision support tools assist with counterparty choice
- Exposure limit monitoring and alerts
- XVA sensitivities for dynamic XVA hedging
- Get fast, accurate SA-CCR and CVA capital calculations, plus KVA arising from capital costs over the lifetime of the trade
- Recalculate XVA numbers by taking into account break clauses to achieve greater accuracy

Transparency and flexibility

- XVA scripting to define and customize XVA measures
- CSA scripting to define all CSA terms
- In-memory pivot tables for interactive slicing & dicing of results
- One-click drill down into results to view trade-level details

Fast time-to-market for new trade types

- Handle any trade type, existing or imagined
- Deal with complex and new standardized CSAs using CSA scripting
- Manage risk of new deal types and capture market opportunities faster than competitors



The Numerix Difference

Discover why the world's leading banks and capital market firms use Oneview XVA for counterparty risk management:

Real-time counterparty risk measures, instead of end-of-day calculations

- American Monte Carlo engine is the most effective calculation approach for CVA of nonlinear instruments
- Calculations can be distributed to a grid or cloud for real-time performance

Agile “future proof” platform is adaptable to future changes in the market and regulations

- Collateral scripting can define even the most complex CSA terms
- XVA scripting enables customization of XVA measures to be included in computations
- In-memory pivot tables allow for real-time customization of reports
- Flexible analytics platform facilitates the easy addition of new trade types

Market-proven, industry leading analytics

- Hybrid model captures all correlations among underlying risk factors across asset classes, which is important for exposure calculations
- Numerix is a pioneer in American Monte Carlo and our method is widely used by clients

Pre-trade decision support tools assist in choosing optimal counterparties and profitable trades

- Create “what-if” trades to determine incremental CVA/DVA of proposed trades, to choose the best counterparty to trade with
- XVA adjustments integrated into pre-trade prices so traders can execute only profitable trades

“In choosing Numerix, we received the best performing methods for each instrument category and a reliable, flexible CVA solution, that above all else was easy to use.”

— Head of Risk Methods & Valuation, pbb Deutsche Pfandbriefbank