



DATA SHEET

# FX Trading Powered by KX

## MODULAR CUSTOMIZABLE FX TRADING SOLUTIONS



KX FLOW



KX ALGO



KX FX ANALYTICS



KX SURVEILLANCE

**LP/VENUE INTEGRATION, MONITORING, MAINTENANCE, SUPPORT, UPGRADES**

**AGGREGATION, BOOK CONSTRUCTION, CORE PRICE CREATION AND DISTRIBUTION**

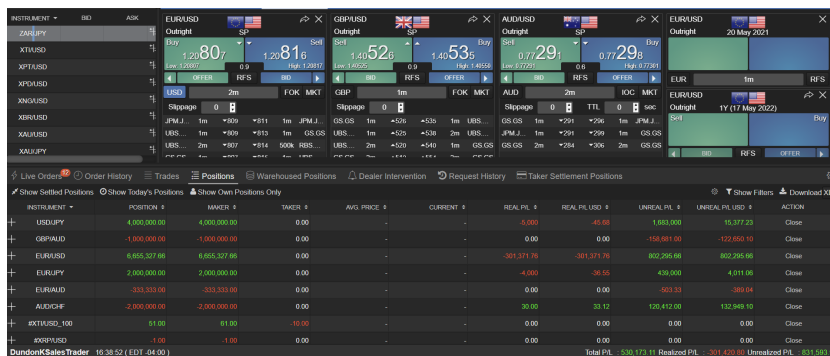
KX provides a feature-rich suite of customizable FX trading, analytics, algorithmic and surveillance modules with built in visualization tools, that can be deployed either as a unified solution or as modular components, to augment an existing eFX trading infrastructure.

- Functionality covers the full trading lifecycle from venue/LP integration, aggregation, book construction, core price creation, skew and mark-up, to distribution via Single/Multi Dealer Platforms (SDPs, MDPs) and APIs.
- Real time streaming and historical data seamlessly normalized, captured and managed by kdb+, the world's fastest time series columnar database.
- An algorithmic strategy development environment enables users to customize pricing, hedging, alpha and order routing strategies, in real time.
- A full suite of real-time pre and post trade analytics UI's and reports enable users to have data-driven conversations with their LPs and clients.

### KX Flow

KX Flow is a modular, turnkey Foreign Exchange trading infrastructure offering users the ability to aggregate, normalize, book build and create synthetic crosses across FX Spot, Forwards, Swaps, FX NDFs and FX NDSs. Users can create bespoke liquidity pools, distribute pricing and route client orders. The Risk Management module, an instance of KX Algo, can be used as a sophisticated smart order routing engine for warehousing or auto-hedging positions, using a range of order types and execution strategies.

KX Flow is hosted and managed 24/7/365 globally across data centres in NY4, LD6 and TY4.



Trading GUI

For more information please contact: [sales@kx.com](mailto:sales@kx.com) or visit [www.kx.com](http://www.kx.com)

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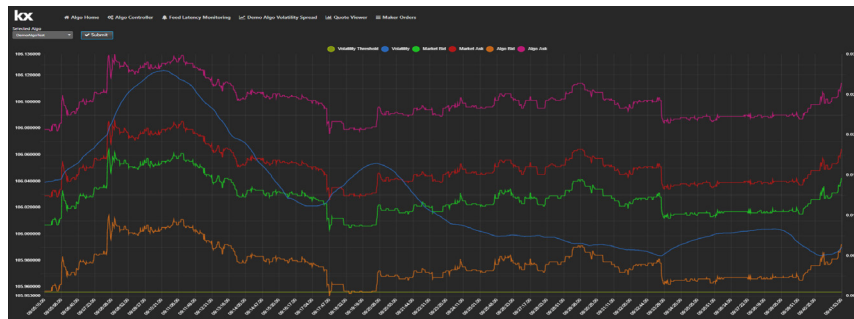
**FULLY INTEGRATED IDE FOR ALGO STRATEGY DEVELOPMENT AND TESTING.**

### KX Algo

Based on a proven, scalable Complex Event Processing (CEP) architecture, KX Algo provides a fully integrated highly performant flexible environment to research, engineer, test and deploy custom proprietary pricing, hedging and trading strategies while managing the associated risk in real-time. Strategies may be tested and refined using a built-in venue/LP simulator before being released to production. More importantly, strategies can be tested simultaneously with production data in a sandbox environment

Functionality includes auto-hedging of risk, based on position size, currency pair, time of day etc., and enables users to configure routing rules to either warehouse positions – full or partial - and/or route them to preferred LPs/Venues, based on various parameters such as reject rate, response times or market impact.

**PRE-TRADE AND POST-TRADE ANALYTICS TO QUANTIFY, VERIFY AND IMPROVE EXECUTION AND PROFITABILITY METRICS**



**Algo Strategy Visualization**

### KX FX Analytics

KX FX Analytics customers can leverage the power of kdb+ to gain deep real-time insight into their FX business.

**PRE-TRADE AND POST-TRADE METRICS AND ANALYTICS TO QUANTIFY, VERIFY, AND IMPROVE EXECUTION AND PROFITABILITY.**

The solution captures all market, order and trade data from internal and external disparate sources, and 3rd party platforms. Typically capturing billions of records per day, KX FX Analytics provides actionable business intelligence, enabling you to optimize liquidity, order routing and execution, thereby increasing volume and profitability across your business. The kdb+ database technology underlying KX FX Analytics is used to power data capture and analytics platforms for the world's top banks, brokers, buy-sides, exchanges, MDP's, ECN's and regulators.

**FULL DEPTH-OF-MARKET DATA CAPTURE, CONTROLS AND PROCESSING RULES TO ENFORCE AND PROVE REGULATORY COMPLIANCE.**

Company *	Instrument #	Date #	Direction #	Order ID #	Time #	Quantity #	Price #	F1Bid #	F1Ask #	F1B #	F1A #	F1B #	F1A #	F1B #	F1A #	F1B #	F1A #
BRISBANK	EUR/USD	2018-11-14	Buy	10EFA00000000007011	2018-11-14 04:12:22	300,000	111.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRISBANK	USD/JPY	2018-11-14	Buy	10EFA00000000007014	2018-11-17 20:29:10	1,000,000	111.96	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BRISBANK	EUR/USD	2018-11-14	Buy	10EFA00000000008014	2018-11-17 20:41:22	1,000,000	111.81	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BRISBANK	EUR/USD	2018-11-14	Buy	10EFA00000000008012	2018-11-14 05:18:18	1,000,000	111.80	0.40	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BRISBANK	EUR/USD	2018-11-14	Buy	10EFA00000000008012	2018-11-14 05:12:22	300,000	111.80	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

**Market Impact Example**

### KX Surveillance

The KX platform captures and analyses massive amounts of information at the most granular level, consolidating FX trading data across disparate, industry-wide platforms plus internalized data including trades, quotes, orders, and market data - all on a single platform. Delivered with a complete library of models, scenarios include collusion, benchmark manipulation, front running, excessive markup alerts and last look in alignment with the FX Global Code. New models can be added and easily incorporated into the comprehensive alert, workflow and case management infrastructure with full contextualized investigation tools.

**KX ALGO, KX FX ANALYTICS AND KX SURVEILLANCE CAN BE HOSTED BY KX, DEPLOYED ON PREMISES, OR BY ANY PUBLIC CLOUD PROVIDER.**

For more information please contact: [sales@kx.com](mailto:sales@kx.com) or visit [www.kx.com](http://www.kx.com)

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