



it's about time

Kx for Surveillance

Solutions for monitoring transaction and e-Comms data for regulatory compliance across all asset classes

Banks, exchanges and regulators around the globe need to protect themselves from financial crime. To do this, many are turning to Kx. Built on technology chosen by top global banks for their high frequency trading systems, **Kx for Surveillance solutions were designed** in collaboration with market participants to give analysts and business users a comprehensive view of relevant market activity.

The Kx solutions capture and consolidate trading data across FX, credit, rates, commodities, equities and listed derivatives in addition to e-Comms data ranging from emails to instant messaging – all on a single platform if required. Its extensive library of scenarios monitor for misconduct across markets and asset classes, detecting behaviors signaling potential market abuse. This combination of **transaction and e-comms data coupled** with scenarios and investigation dashboards provides substantial efficiencies from detection through to prosecution.



Visualization dashboards give surveillance analysts tools to inspect the causes of alerts. Scenario specific dashboards, such as market replay, used to reconstruct trading history, keep relevant data at analysts' fingertips. Highly flexible, because the platform incorporates configurable data, scenarios and visualizations, Kx changes along with evolving products and regulatory requirements. Kx for Surveillance can either be deployed on-premises or hosted by Kx.

The Kx solutions for Trade and eComms Surveillance can operate independently or in combination over a common Kx platform

At a Glance



Kx for Surveillance enables regulators, exchanges and industry practitioners to stay abreast of rapidly evolving financial markets to ensure market integrity and efficiency.

The Kx Advantage

- Data model supporting all asset classes
- Extensive library of scenarios for detecting market misconduct
- **Solutions for capturing and processing both transaction and e-Comms data in one platform**
- Backtesting on historical data for validation and new alert calibration
- Visualization dashboards for detailed investigations of potential breaches
- **Flexible Natural Language Processing on e-Comms data using customer defined lexicons**
- Retains unlimited years of market data for audit trail
- Powerful kdb+ database enables advanced analytics across vast amounts of data
- Extendable to capture new trading platforms and markets



Easy Access to Data

Organizations that use Kx are able to unlock trading data previously siloed in disparate legacy platforms. These large-scale datasets are typically not easily accessed by business users. Kx is built on a unique database which brings vast amounts of data directly to the business user, opening the door for a consolidated view of trading and insights across the enterprise.

Streamline Operations

The built-in intelligence of Kx provides an organization with more accurate alerts. This results in significant operational efficiencies. Our customers report that the time taken to conduct investigations into trading breaches is reduced from months to minutes. The effort required by staff for investigations is also significantly reduced.

Broad Regulatory Coverage

Kx scenarios are tested and proven over many years in some of the most challenging compliance environments. We have developed an extensive library of scenarios for detecting and alerting in potential cases of market abuse. Using Kx scenarios, our customers have improved their enforcement results across the board, including for insider trading and market manipulation.

Case Management

Kx has a flexible workflow tool to cater to your organization's surveillance business processes. This case management framework allows clients to easily customize their alerts and case management workflows, capturing additional key information such as emails, announcements or any other relevant files.

About Kx

Kx has been the software leader for complex analytics on massive-scale streaming data for over two decades. The Kx technology is an established and trusted standard for trading, surveillance and research in financial services. Kx has emerged as the elegant, integrated solution to the analytic needs of the Pharma, Retail, Utilities and High Tech Manufacturing industries scaling effortlessly to the data challenges of the Internet of Things.

Kx is a division of First Derivatives plc. Listed on the London Stock Exchange [FDP:LN] First Derivatives is a specialist software and consulting organization with an uninterrupted track record of customer success and profitable growth since it was listed in 2002.



Improved Accuracy

Regulators and bank compliance departments are dealing with ever increasing volumes of complex trading data which makes identifying anomalies difficult. With Kx it is possible to backtest many years of trading data to efficiently calibrate scenarios and identify irregular behaviour, minimizing false positives.

Tailor-made Market

Flexible HTML5 dashboards make it easy for surveillance analysts to dynamically filter and investigate incidents of market abuse and reconstruct trading activity. Built-in features mean users can customize their own market views combining streaming, real-time and historical trade and market data.

Dedicated Trade Surveillance Unit

Kx has a team of specialists with knowledge and experience in surveillance and trading. These experts will look at your specific trading data and your regulatory requirements, then tailor our solution to meet your specific needs. The Kx trade surveillance unit eases implementation without adding to headcount.

eComms Surveillance and Machine Learning

eComms Surveillance provides the ability to freely define lexicons driving Natural Language Processing to search for, extract, and lemmatize specified data and raise alerts based on user-configurable rules sets

Kx in Action

Visualize and Explore Data

- Dashboards for Kx
- Analyst for Kx

Control, Deploy & Monitor

- Control for Kx
- Stream for Kx
- Kx for Monitoring

Industry Solutions

- Finance
- Surveillance
- Algo
- Flow
- Pharma
- Utilities & IoT



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