



it's about time

# Kx for Surveillance

## Trade monitoring for regulatory compliance across 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 was designed in collaboration with market participants to give analysts and business users a comprehensive view of relevant market activity.

The Kx platform captures and consolidates all trading data for FX, credit, rates, commodities, equities and listed derivatives. Its extensive library of scenarios monitor for misconduct across markets and asset classes, detecting behaviors signaling potential market abuse. This combination of data, 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.

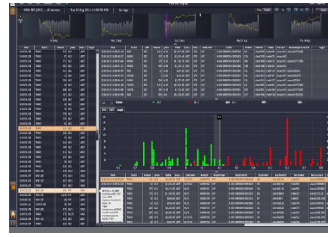
### At a Glance



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
- Backtesting on historical data for validation and new alert calibration
- Easily modified to keep pace with best-practice trading surveillance techniques
- Visualization dashboards for detailed investigations of potential breaches
- Efficiently incorporates new regulatory requirements
- 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 a 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.

## Enhanced Surveillance

Traditional surveillance techniques are based on monitoring and alerts for individual incidents of market abuse, which upon further review may lead to wider investigations, referred to as a bottom-up fundamental approach. Because Kx has the capability to look at vast amounts of data to find anomalies, business users can use a thematic top-down approach, which gives broader intelligence for monitoring market abuse.

### 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

### Head Office

3 Canal Quay,  
Newry,  
BT35 6BP  
N. Ireland  
+44 (0)283 025 2242

### London

Cannon Green Building,  
1 Suffolk Lane,  
EC4R 0AY  
United Kingdom  
+44 (0)207 337 1210

### New York

45 Broadway,  
NY 10006  
USA  
+1 (212) 447-6700

### Singapore

55 Market Street,  
048941  
Singapore  
+65 6592 1960

### Sydney

22 Pitt Street,  
NSW 2000  
Australia  
+61 (02) 9236 5700

### Toronto

1599 Hurontario  
Street,  
Mississauga, On,  
L5G 4S1  
Canada  
+1 289-329-0636

### Tokyo

Sanno Park Tower,  
2-11-1 Nagata-cho,  
Chiyoda-ku,  
100-6162  
Japan  
+81 (0)36 205 3494