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Digital Transformation Solutions

Treliant kdb+ Engineering

WHAT IS KX?

The fastest, best-informed, real-time decision-making engine in the world, connected to the data you need. KX can capture any data, run anywhere, and provide a highly efficient solution to complete the most advanced data-orientated tasks. The unrivalled streaming analytics capabilities drive the most demanding business decisions with real-time, continuous intelligence.

The Problem – Knowing Too Late

- Many contemporary analytics platforms are based on an old-style polled model where data is collected into a repository by certain processes, retrieved in queries by different ones, and then evaluated in yet another set before the results are finally returned to the user.
- The problem with information delays is that data can change based on market fluctuations, resulting in missed opportunities.
- To find out what is happening, or to predict what might happen, you need streaming analytics.

The Opportunity – Knowing In Advance

- Streaming analytics enables instantaneous decision making based not only on data as it arrives, but on factoring in crucial historical data as well.
- Contextual analysis identifies patterns and insights based on moving averages, correlations, and machine learning over historical data.
- Streaming analytics not only tell the story of what has happened, but also provide insights into real-time data and can predict future patterns.

The Benefit- Proactive Solutions

- Data is the new force fuelling innovation and guiding successful organizations in informing their decisions, reforming their processes, and out-performing competition.
- It's all about data. Digital transformation is premised on it, machine learning is built upon it, and operational efficiency is measured by it.
- Data is, without a doubt, the new power and our kdb+ engineers can help you harness it.

HOW TRELIANT CAN HELP?

kdb+ Engineering Services

- Our global team of expert KX engineers have years of experience in developing, deploying and supporting kdb+ based applications and mission critical solutions across financial services, utilized in areas ranging from real-time risk aggregation, visualization and latency analysis, fraud prevention, and transaction cost analysis.
- We specialize in leveraging kdb+ for pricing and analytics use cases in financial services and banking.

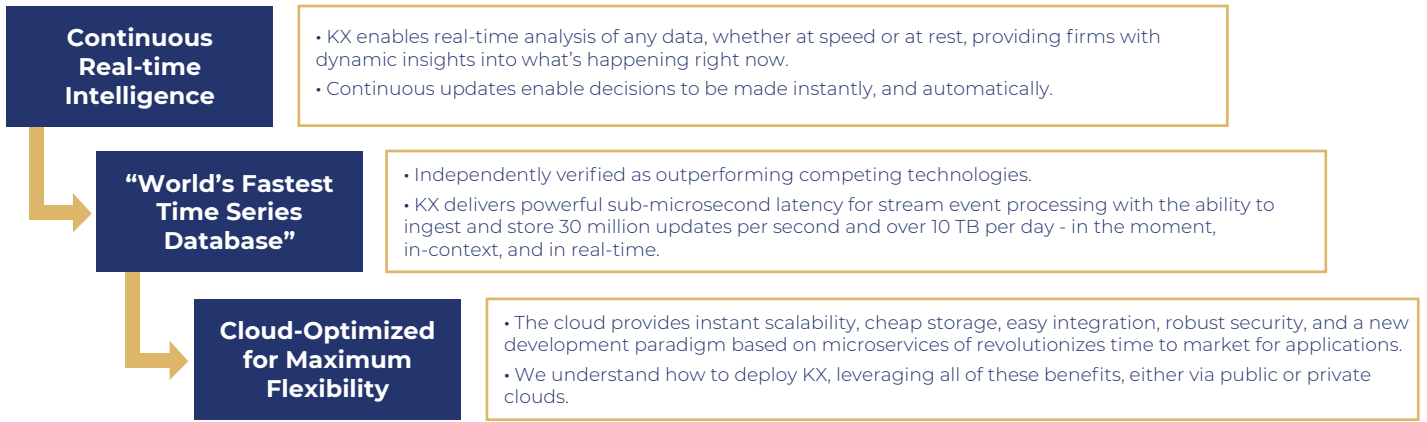
Training Courses and Workshops

- We offer a series of training courses which can either be based on our standard modules, or we can tailor learning to meet client needs.
- After attending any of the training courses, participants have full access to our premium support services with access to kdb+ engineers on a 24/7 basis for three months, ensuring attendees continue to benefit from our knowledge even after course completion.

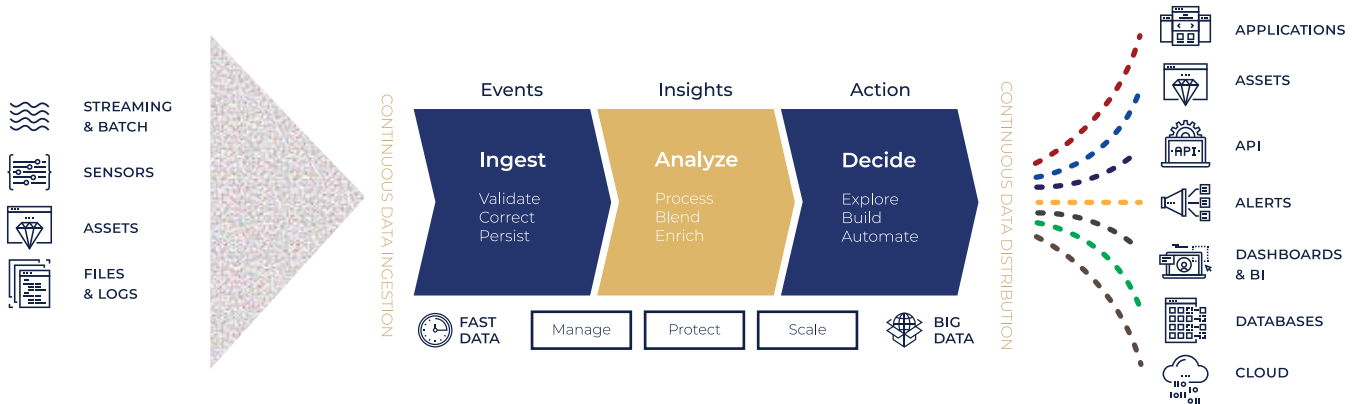
Support

- We provide skilled personnel to work under your direction to develop, maintain, manage, and support your KX applications, helping you manage fluctuating resource needs, skills gaps, and changing priorities.
- Our responses are delivered by knowledgeable staff deeply familiar with your code, not scripted responses from an outsourced support center.

THE KX DIFFERENCE



CONTINUOUS BUSINESS INTELLIGENCE



TYPICAL USE CASES

	Challenge	Solution	How we help
High Frequency	<ul style="list-style-type: none"> • High rate of flow for market and trade data • Need to calculate prices, positions, and risks in real-time • Combination of current and historical data often required 	<ul style="list-style-type: none"> • kdb+ often used as backbone of solution • Niche skills required to configure/maintain kdb+ • Data ingestion and querying are key components of the solution and subject to ongoing change of business needs 	<ul style="list-style-type: none"> • Deep domain knowledge in set up and performance optimization of kdb+ solutions • Well versed in trading solutions, analytics, and needs of high frequency trading environments
Risk Management	<ul style="list-style-type: none"> • Risk management must be able to cope with highly volatile markets • Alerts and triggers around pricing and risk changes need to trigger further action • Material changes or proximity to limits needs to be flagged and actioned 	<ul style="list-style-type: none"> • The ability to pipeline data and analytics with very high data rates means kdb+ solutions can react swiftly to market conditions • Combining massive volumes of historical data and high data rate real-time data enables broader use cases and improved risk analytics 	<ul style="list-style-type: none"> • Mixture of kdb+ and quant skills means solutions can be optimized to deliver best business value • Breadth of skills available across kdb+ and broader data space means intra-day and EOD solutions can be optimized
Trade Surveillance	<ul style="list-style-type: none"> • High rate of flow for market and trade data • Need to monitor the full streaming data set for patterns (i.e., spoofing, layering, front running etc.) • Combination of current and historical data often required 	<ul style="list-style-type: none"> • The ability to manage very large volumes of data is key • Focus is often in volatile markets, hence real-time nature of analytics comes to the front • Complex algorithms easily supported 	<ul style="list-style-type: none"> • Deep understanding of regulatory environment • Combination of business and technical (kdb+) skills to deliver full scope solution • Provision of solutions for multiple clients enables us to leverage best practice experience



Treliant is an essential consulting firm serving banks, mortgage originators and servicers, fintechs, and other companies providing financial services globally. We are led by practitioners from the industry and the regulatory community who bring deep domain knowledge to help our clients drive business change and address the most pressing compliance, regulatory, and operational challenges. We provide data-driven, technology-enabled consulting, implementation, staffing, and managed services solutions to the regulatory compliance, risk, credit, financial crimes, and capital markets functions of our clients. Founded in 2005, Treliant is headquartered in Washington, DC, with offices across the United States, Europe, and Asia.