



it's about time

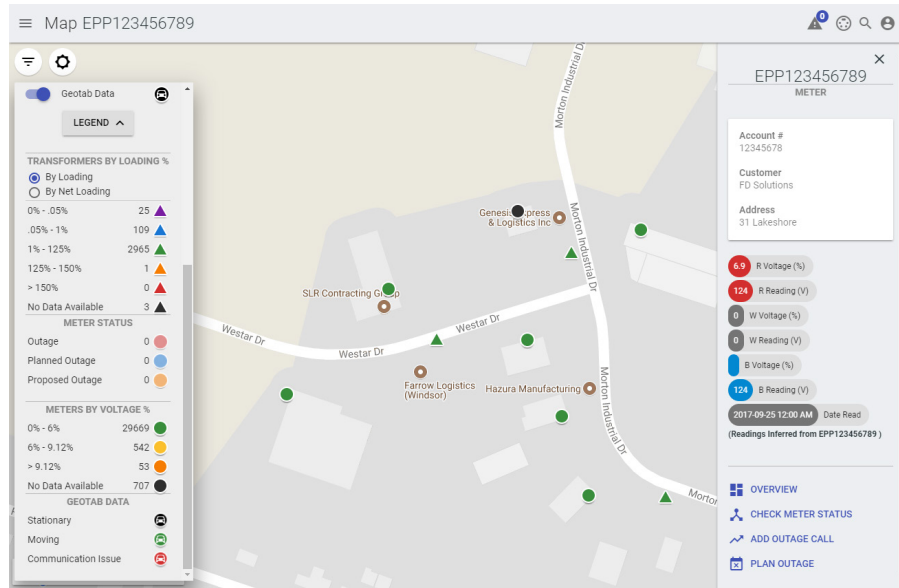
Accelerating Apps and Reducing Costs

For Applications and Analytics

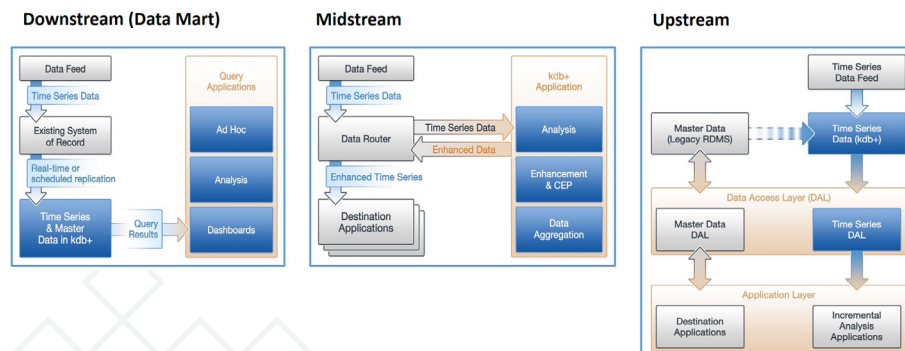
The Industrial Internet of Things (IIoT) is the concept of connected objects and devices, everything from manufacturing equipment, automobiles, jet engines to smart meters. Many analysts predict that there will be over 20 billion connected devices by 2020.

The end result for companies is larger data sets and end users desiring access to information and with a faster turnaround.

Kx offers a platform that can integrate with existing applications to expand the current scale and performance required to deliver responsive analytics and solutions at significantly reduced total cost of ownership.



Give your solution a robust platform to leverage for unparalleled performance or incorporate multiple datasets for rich real-time analysis for optimizing business operations, customer engagement, and offering new services and products.



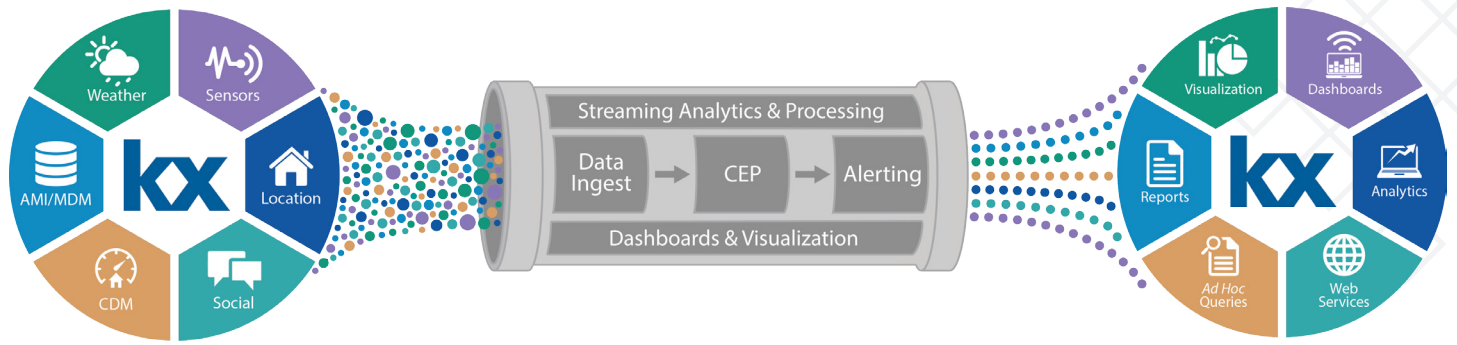
At a Glance



Gain market advantage by using Kx modules. Enhance performance and scale of your application. Use Kx when facing the requirement for analyzing massive amounts of streaming (real-time) and historical data from sensors, devices, and other data sources.

The Kx Advantage

- Modular tools for data processing, storage and analytics
- Bring big and fast data to your existing and new Industrial IoT applications
- Ingests, validates, estimates, filters and cleanses streaming real-time and batch data using vector and parallelized algorithms
- Powered by a bitemporal data model with rich analytics
- Supports any sensor measurement, frequency, tags and attributes with nanosecond precision
- Scales to support millions of sensors, and trillions of records
- Event processing, calculations, aggregations, alerting and reporting
- Enterprise features, multi-tenancy, security, auditing, logging, automated storage tiering, on-line archive, and compression
- Deploy on premises or in the cloud, across multiple storage technologies



Analytics and Actionable Insight

Analyzes data from sensors, transactions, combined with other data such as weather, location, to identify non-standard events, make forecasts and predictions.

Bitemporal data models and time-series analytics provide traceability, transparency, and auditability.

Makes data and analytics available to authorized users, systems and customers through mobile, web and APIs on demand.

Security and Enterprise Grade

Hardened for the enterprise with reliability, availability and security built in.

Extreme Performance and Scalability

Provides the performance you need at any scale, from thousands to hundreds of millions of sensors, devices and nodes, with any measurement frequency.

Supports thousands of concurrent time series queries involving trillions of rows of data, and analytic performance that is orders of magnitude faster than alternatives.

Scales vertically and horizontally, on premise, cloud, and any storage technology.

Integration and Interoperability

- Integrate with legacy systems and multiple data sources, allowing you to either augment or replace existing historians
- Extend and customize your data analytics application to support your unique requirements
- Use a connector framework to integrate with IT/OT systems, including SCADA, AMI, MDM, OMS, MDM, EMS, and ADMS
- APIs for .NET, Java, C, C++, Python, R, ODBC, Matlab, and Excel
- APIs for synchronizing master and reference data with other systems, including assets, locations, sensors and sensor measurements, with built in-audit trails

Reduce Capital and Operating costs

- Less licenses, less infrastructure, and simpler data management reduces total cost of ownership
- Maintain service levels with historical and streaming analytics on same data store
- Eliminate sending copies of data to other systems for processing and analytics
- Complex event & transaction processing during ingestion process
- Reduce storage and storage management costs

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.

Kx in Action

Visualize and Explore Data

- Kx Dashboards
- Kx Analyst

Control, Deploy & Monitor

- Control for Kx
- Streams for Kx
- Kx for Monitoring

Industry Solutions

- Finance
- Manufacturing
- Utilities
- Telecommunications
- Space
- Retail

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