



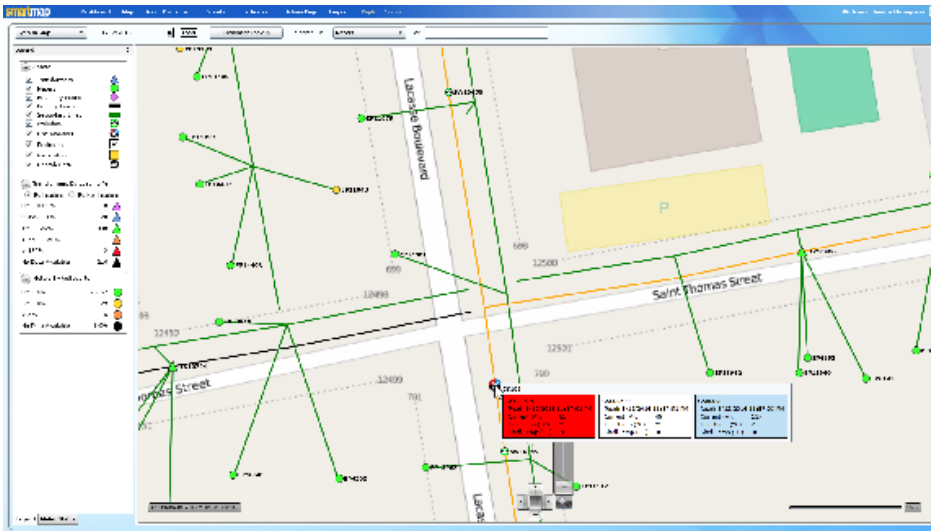
it's about time

Kx for Sensors

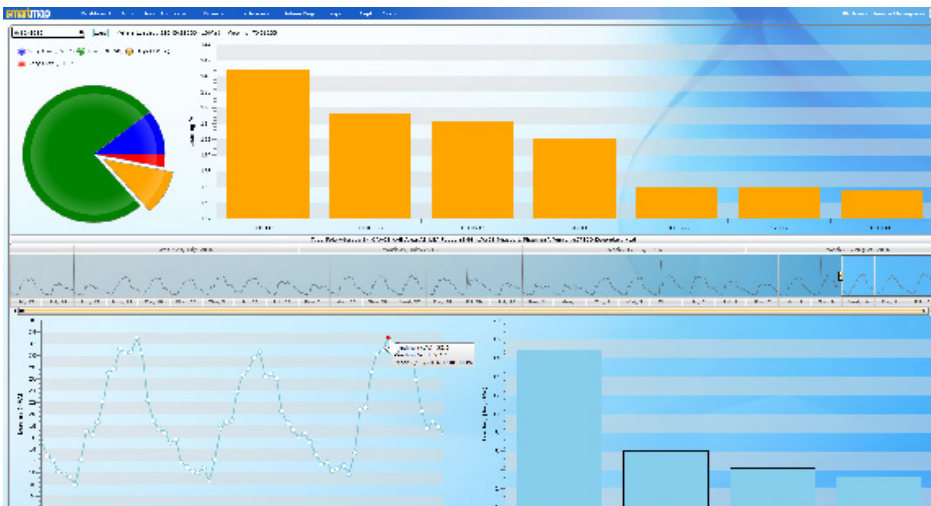
Unleash the data within reach

The Internet of Things (IoT) is the concept of connected objects and devices, everything from cell phones, televisions, fitness trackers, as well as manufacturing equipment, automobiles, and jet engines. Many analysts predict that there will be over 20 billion connected devices by 2020.

These devices are equipped with sensors that capture information about the device, service, weather, location, vibration, motion, and output quality. For example, a manufacturing plant's sensors take measurements tens of thousands of times per second across multiple dimensions, and with smart meters utilities are having to handle thousands of times more data than before with analog meters.



Rich real-time analysis of this data presents significant opportunity for optimizing business operations, customer engagement, and offering new services and products.



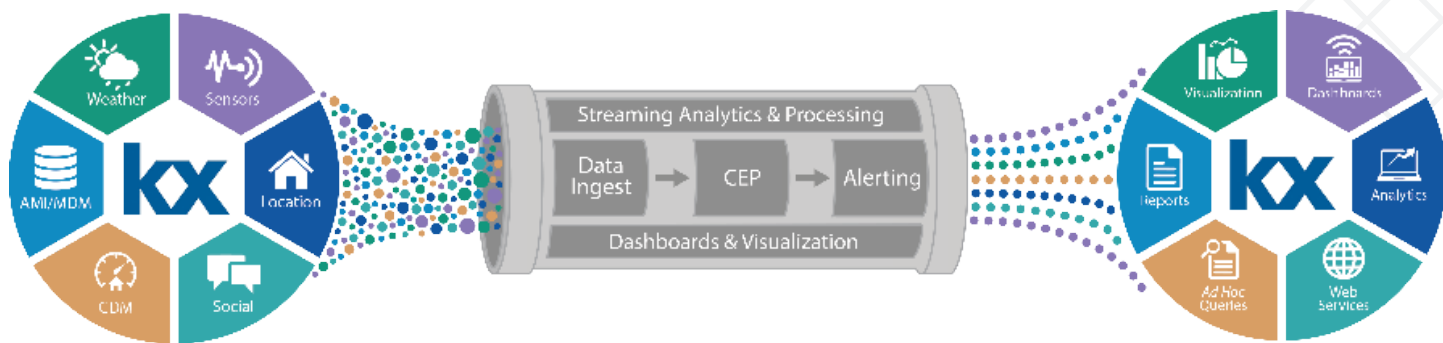
At a Glance



Kx for Sensors is an integrated VEE and Analytics solution for ingesting, validating, estimating and analyzing massive amounts of streaming (real-time) and historical data from sensors, devices, and other data sources.

The Kx Advantage

- One single, integrated platform for sensor analytics not a collection of incompatible tools and loosely coupled projects
- Analyzes sensor data 10s to 100s of times more quickly than alternatives for competitive advantage and lower TCO
- Ingests, validates, estimates, filters and cleanses streaming, real-time and batch data using vector and parallelized algorithms
- Supports any sensor measurement, frequency, tags and attributes with nanosecond precision
- Scales to support millions of sensors, and trillions of records
- Complex Event Processing, aggregation, alerting and reporting
- Provides real-time actionable insights for improved customer experience and business operations
- Enterprise features, multi-tenancy, security, auditing, logging, on-line archive, and compression
- Deploy on premises or in the cloud



Ingestion, Validation and Estimation

Validates and estimates raw sensor data according to business rules to delivery high quality granular and aggregated data for analytics, operations and billing. Uses vector and parallelized VEE algorithms to support real-time sensor analytics applications.

Analytics and Actionable Insight

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

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.

Situational Awareness and Visibility

Improves situational awareness of assets, networks and services by analyzing, correlating and visualizing data from devices, sensors and events in real time, generating alerts and triggering business process actions.

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.

Industry Applications

Utility meter data management and analytics

Data marts and access platforms

Telecommunications, Manufacturing and Industrial IoT

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

- 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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