

Customer Success



The US Postal Service relies on Kinetica to ingest and analyze and visualize and archive streaming data for real time route optimization and on time mail delivery.



Senior you uses Kinetica to process real time pipeline well answers data to identify the most valuable fields and remotely monitor drilling performance.



Like you with businesses across retail telco finance and healthcare uses Kinetica to manage these myriads of data sources with millisecond latency and a real time view of their customers across industries and deliver real time personalization.

Overview

In the extreme data economy your business needs to analyze and react to data simultaneously in real time a process called active analytics. It requires continuous analysis of streaming and historical data location analysis and predictive analytics using AI and machine learning.

The Kinetica Active Analytics Platform brings together all key elements of active analytics in a unified platform historical data analytics streaming data analytics location intelligence and artificial intelligence. The platform is cloud ready and dramatically simplifies the typical architecture for smart applications with unmatched performance. Healthcare energy telecommunications retail and financial services businesses tap into new technologies like connected devices wearables mobility robotics and more can use Kinetica machine learning and advanced location based analytics that power new services. Kinetica's accelerated parallel computing brings the force of thousands of CPUs to bear on the uncertainty and complexity of extreme data.

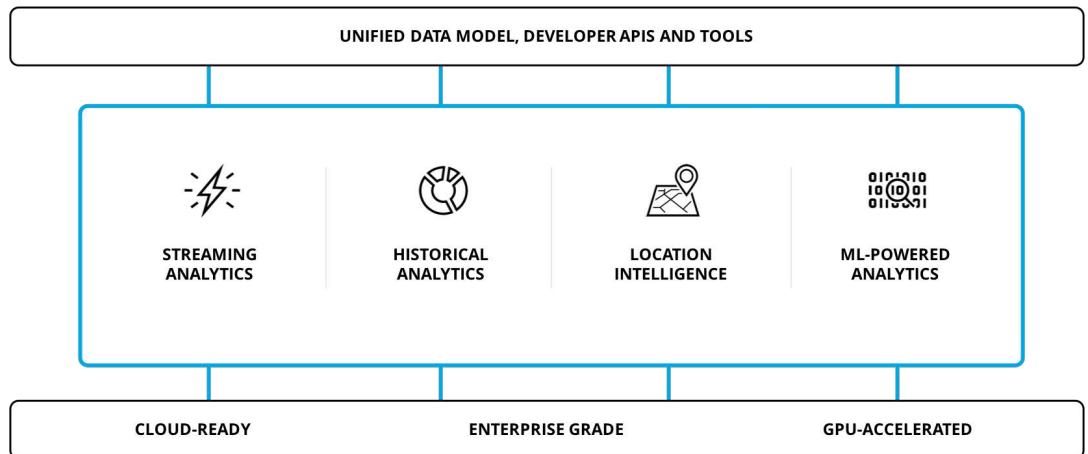
Our Story

After extensive testing and research revealed no existing systems capable of meeting the US Army intelligence and Security Commands needs for tracking national security threats in real time Kinetica was built from the ground up centered around massive parallelization utilizing the CPU to produce instant results and visualize insights across massive streaming datasets.

Now the proliferation of mobile cloud and IoT devices has brought us into a new era of the extreme data economy. There's a greater variety of data than ever before and essentially more of it streaming in in real time. Never before has data been so complex and uncertain as businesses are running up against serial computational bottlenecks at the very moment the data is most valuable.

Kinetica's instant insights engine is powered by thousands of advanced CPUs that run in parallel to see streaming data analysis visualize forecast streamline machine learning and test in class partner innovation ecosystem to break through the old bottlenecks.

Kinetica is already battle tested and has a strong partnership with AWS for accelerated hardware. It's certified by AWS and runs on Cisco servers.



The Kinetica Advantage

Kinetica is built on five pillars of success.

Unparalleled Speed

Dramatically accelerate analysis with advanced parallel computing

- In-memory GPU architecture with advanced GPU abstraction technology
- SQL queries to process and analyze billions of rows in microseconds
- Simpler data preparation through distributed ingestion and extraction without the need to index

Streaming Data Analysis

Ingest and process data at the same time to get instant results

- Run SQL queries on streaming and geospatial data
- Continuously collect, analyze, and integrate streaming data with historical data
- All-in-one solution to ingest, compute, visualize, and egress data

Visual Foresight

Instantly translate temporal, geospatial, and streaming data into visuals that reveal patterns and opportunities

- In-memory, distributed image processing and rendering
- Interactive visual discovery optimized for temporal and geospatial analysis
- Integrated visual dashboard

Streamlined Machine Learning

Train models faster and predict more accurately with integrated machine learning workflows

- Seamlessly integrate pre-existing code with highly scalable solution
- Simultaneously process & manage BI and AI workloads
- Integrate workflows with open source machine learning libraries

Best-in-Class Innovation Ecosystem

Kinetica partners with leaders in every category to deliver continuous cutting-edge innovation

- Innovate with leaders in GPUs, hardware, cloud, machine learning, and visualization
- Integrate into most data infrastructures
- Deploy on industry-standard hardware and scale linearly

Dell EMC OEM Solutions and Kinetica seamlessly work together to power business in motion for the Extreme Data Economy

Dell EMC provides technology that transforms with you so you can transform your business.

The Dell EMC PowerEdge R740 platform can easily be configured as a reliable, general-purpose server for real-time, business-critical applications, with scale-out storage, auto-mated management and high-availability features, such as:

- Redundant power supply units (PSUs)
- Hot-plug and swappable PSUs, HDDs and fans
- Dual SD card option for failsafe hypervisors

Kinetica is certified to run on Dell EMC PowerEdge servers, giving you exceptional performance and versatility for dynamic workloads as you quickly go from raw data to actionable insights and competitive advantages. Featuring greater expandability, more storage, and enhanced compute density, the R740 can handle nearly any workload configuration and can run intensive, mission-critical applications for both large and small enterprise environments. As an example of lightning-fast actionable insights, Dell EMC and Kinetica can work together to analyze 3.8 billion records of text and tweets from social media, filtered by location, in real time. This capability is ideal for many real-time use cases such as retail inventory management and logistics.

Recommended Hardware

The PowerEdge R740 platform boasts a two-socket 2U rack server with impressive processor performance, a large memory footprint, extensive I/O options and a choice of dense, high-performance storage or low-cost, high-capacity storage.



	GOLD CONFIGURATION	SILVER CONFIGURATION	BRONZE CONFIGURATION
Storage	Kinetica storage: 4 times RAM usable RAID 10 OS (8x raw storage), 2 - >512 GB striped OS drives		
RAM	up to 3.0TB DDR4 2666MT/s	1TB DDR4 up to 2666MT/s	512GB DDR4 up to 2666MT/s
CPUs	2-Intel® Xeon® Gold 6154 3.0G,18C/36T,10.4GT/s,z25M Cache,Turbo,HT (200W) DDR4-2666	Intel® Xeon® Gold 6126 2.6G,12C/24T,10.4GT/s, 19.25M Cache,Turbo,HT (125W) DDR4-2666	Intel® Xeon® Gold 6126 2.6G,12C/24T,10.4GT/s, 19.25M Cache,Turbo,HT (125W) DDR4-2666
CPU/GPU Link	PCI Express		
GPUs	2 NVIDIA P100s	2 NVIDIA P100s	2 NVIDIA P100s



For more information on the Kinetica Active Analytics Platform visit kinetica.com

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