TIBCO®

TIBCO Statistica Edge
The Internet of Things requires new ways of preparing and analyzing data wherever it lives.

"The ability to store and collect data will always exceed our ability to analyze and make sense of it."

- Dr. Thomas Hill, Executive Director of Analytics, Statistica

The Internet of Things (IoT) presents a practical challenge to most analytic workflows and data processing architectures. The problem is that the capacity to generate and measure data regularly outpaces the infrastructure and technical capabilities available to transport, store, or analyze it all. Data generated by increasing numbers of inexpensive sensors and devices will grow infinitely, while the information contained in that data will not.

It has become impractical or cost-prohibitive to transmit all data to a central location for analysis. Therefore, most IoT applications will require analytic models be moved as close as possible to where the data is collected, without sacrificing quality. In this way, predictions and other actionable information can be generated in real time when it is most valuable.

WELCOME TO THE EDGE

TIBCO Statistica™ addresses this IoT challenge with Edge, a scalable, advanced analytics suite whose workflows can be deployed to unlimited remote devices and sensors at the periphery of data collection architectures.

With Statistica Edge, there is no longer any data in your sensor network that is beyond the reach of advanced analytics.

Statistica Edge simplifies the daunting tasks of preparing, analyzing, and benefitting from ever-growing volumes of IoT data that would otherwise be inaccessible or unmanageable. Edge can apply advanced analytics to all sensor and device data at the right time, at the point of impact, and take automatic action with conditional logic workflows.

The term "edge analytics" refers to a distributed computing architecture where sophisticated computations are performed near the sensors or devices where data is collected, even when collected on as many variables as possible with the greatest frequency possible.
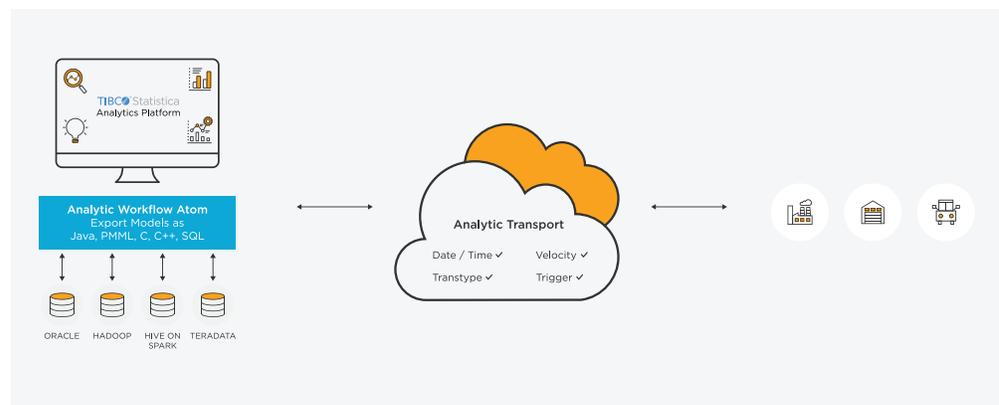

Figure 1: The power of Statistica Edge derives from our Native Distributed Analytics Architecture that pushes conditional, platform-specific workflows out to the edge of your sensor network, regardless of geographic location.

FEATURES

ANY DATA, ANYWHERE

Statistica data prep and analytic workflows may run edge analytics on any edge device (even a non-computing device) or IoT gateway—anything with an IP address anywhere in the world. Only the most meaningful, pre-processed, aggregate data is delivered upstream for further core analytics. This means a company's entire network becomes "smart" at any scale and in real time.

BEYOND BASIC SCORING

Statistica Edge moves beyond basic alerts and scoring. It deploys advanced analytic and data prep workflows with conditional logic to edge devices and gateways.

SCALABLE

The digital edge grows as your enterprise network grows, so Statistica Edge is designed to keep up with it all. Even as a centrally managed solution, a Statistica deployment of analytic workflows allows for customized flexibility and individuality.

ORCHESTRATES ANALYTICS ACROSS THE ENTERPRISE

Statistica Edge easily enables organizations to deploy and monitor data prep and analytic workflows across the sensors and smart devices where they reside.

AGNOSTIC AND FLEXIBLE

Unique, IT-friendly Statistica architecture allows sophisticated data prep and analytic workflows to perform across multiple technologies and platforms, independent of the underlying component-level technology.

TIBCO fuels digital business by enabling better decisions and faster, smarter actions through the TIBCO Connected Intelligence Cloud. From APIs and systems to devices and people, we interconnect everything, capture data in real time wherever it is, and augment the intelligence of your business through analytical insights. Thousands of customers around the globe rely on us to build compelling experiences, energize operations, and propel innovation. Learn how TIBCO makes digital smarter at www.tibco.com.