



# Smart Systems



Vantiq was established in 2015. The company leads the industry with the state-of-the-art platform for Smart Systems.

The team at Vantiq brings decades of experience in cloud, mobile, database, and distributed technologies.

Vantiq has partnered with numerous companies to provide comprehensive Smart Systems to the market.

Vantiq software solutions are currently being used or evaluated at numerous companies, ISVs (Independent Software Vendors) and SIs (System Integrators).

## Evolution of Smart Systems

McKinsey & Co projects trillions of dollars of economic value created from the digitization and connecting of the physical world. Executives realize that they must adapt or their companies will find themselves disrupted by agile innovators that embrace the opportunities in a world that no longer has limits to what can be sensed, analyzed, and acted upon digitally and in realtime.

Vantiq enables software applications to be rapidly built using modern digital technologies augmented with business logic. Smart Systems created with Vantiq are smart enough to know what information is important, what decisions need to be made, which people need to be involved, which actions to take as well as where and when to take them.

To enable success, Vantiq hides the underlying complexities of building Smart Systems that are *Distributed*, *Collaborative* and *Permanently Agile*.

### **Distributed**

Smart Systems unify the disparate network of devices, cloud, and mobile into a single distributed system. Decisions and actions are performed at the right time in the right place.

### **Collaborative**

Smart Systems enable the intelligent interaction with the entities in the network based on the realtime context. Recommended actions are suggested to targeted users and automated actions are routed to and executed on targeted devices.

### **Permanently Agile**

The pace of change is ever increasing. Smart Systems are fully dynamic allowing change at every level, including the ability to move processing logic to the best location with zero downtime.



## Why Distributed Matters?

Extending the digital world to devices spanning the globe heightens security, reliability and performance concerns. Mission critical Smart Systems require an intelligent distributed architecture that ensures what data is shared and reduces the reliance on the network, while optimizing for lowest cost and latency for mission critical operations.

The data requirements from devices and sensors are outpacing the ability for networks to keep up. Sophisticated rules, statistical analysis, and machine learning are required at the edge to make smart decisions and relay higher-level, business relevant events to the cloud.

## Why Collaborative Matters?

As the complexity grows, Smart Systems must enable humans to remain in control. They must create a fully collaborative environment that unifies the processes and systems with people's work activities to increase engagement and efficiency, while freeing them up from low value tasks.

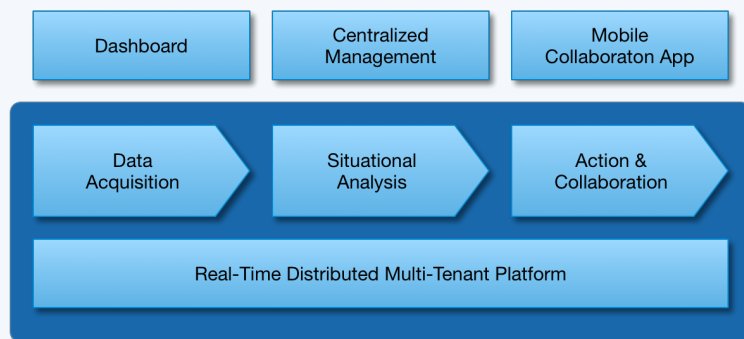
Through a rich, realtime understanding of the user's context, Smart Systems can deliver targeted content and recommended actions. Presenting the right information at the right time reduces the cognitive load on the user while, at the same time, giving them the necessary tools to make informed decisions aligned with the business.

[www.vantiq.com](http://www.vantiq.com)

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## Vantiq Platform

Vantiq™ created a realtime platform for easily creating, operating, and evolving Smart Systems. Vantiq is comprised of three layers.



To support the diverse landscape required for a Smart System, Vantiq built an innovative distributed, multi-tenant platform, providing a foundation that spans resource-constrained embedded environments required for IoT up to the scalability and reliability required in the cloud.

Each Vantiq node provides the core capability to ingest and enrich data from multiple data streams, correlate and analyze data to continuously provide situational awareness, and take actions in realtime through intelligent interactions and targeted controls.

Vantiq offers the benefits of SaaS through dynamic deployment and centralized management of fully distributed Smart Systems from the cloud. Vantiq allows for situations and business rules to be dynamically changed by operators in realtime. This enables companies to respond quickly and reliably to their changing business conditions.

