

Digital Transformation Decision Guide

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Understanding if Event-Driven Architecture (EDA) is Right for You

According to research firm Gartner¹, “EDA delivers some critical aspects of digital business: real-time intelligence and responsiveness, extensibility of applications, global scale, and ‘lossless’ business activity analysis.”

But how do you decide if EDA is the right path for you? Dive deeper to ensure you will achieve transformative business and technical goals with applications based on EDA.

✔ Do you Need Real Time?

The Problem: Are you envisioning running next-generation applications that require processing of streaming data that drive valuable actions in real time? Do your mission-critical business operations need a more agile, dynamic approach? Be careful. Most application platforms use a three-tier, database-centric architecture which will not support real-time analysis and actions.

The Solution: Event-based architecture was built for real-time business operations and the VANTIQ EDA application development platform lets you sense, analyze, and act on data streams from a variety of sources. The result? Truly transformative business value by taking real-time action based on your data.

✔ Is Your System Distributed?

The Problem: Do your applications involve edge computing, IoT, or other technologies that increasingly require distributed data collection and processing? Many development platforms are tightly coupled and cannot easily support the next generation of distributed applications.

The Solution: Loosely coupled EDA solutions are ideal for distributed systems. In fact, VANTIQ-based EDA applications can not only be physically distributed but can shift workloads dynamically (cloud-to-edge, peer-to-peer, etc.). This cuts out unnecessary data transfers, reduces latency, lowers costs, and ensure actions are taken in real time when they have the greatest impact.

✔ Are you Looking to Scale?

The Problem: Some industries and use cases require massive scalability. Maybe you have thousands of sensors. Maybe you’re running a real-time application using machine learning and image recognition with feeds from numerous video cameras. Maybe you will eventually want to expand from one simple application to a system of connected apps.

The Solution: The VANTIQ application platform-as-a-service (aPaaS) uses a clustered configuration which is inherently designed to grow automatically, without adding time and effort required to constantly provision additional resources.

✔ How Long Can You Wait for Results?

The Problem: Some technologies take more time than others to code, test, and deploy. Generally, the more complex the capabilities, the more time it takes to get into production - and that delay can have dramatic impacts as the pace of change in business continues to accelerate.

The Solution: VANTIQ’s low-code approach abstracts away much of the complexity and enables you to create real-time applications much more quickly than traditional options for building systems with EDA at their core. In addition, VANTIQ gives you mobile and web application building tools that can enable powerful human-machine collaborations. In short, you have the options your organization needs to move ahead more quickly than you previously thought possible.

¹ Gartner, The Five Steps Towards Pervasive Event-Drive Architecture, Yefim Natis et al, 28 June 2019.

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☑ *Will You Need to Use Multi-Clouds?*

The Problem: Cloud-based applications can be easier and quicker to implement, integrate, and scale. Many organizations also value the mobility, remote accessibility, collaboration, and flexibility that are inherent in cloud-based solutions. But few companies want to standardize all their operations on a single cloud.

The Solution: With VANTIQ, you are not locked into a single cloud provider. Applications can run across multiple clouds or even in an on-premises private cloud as well as on edge nodes. You can access applications built on the VANTIQ platform through a VANTIQ-managed or self-managed, multi-tenant or dedicated cloud, depending on your deployment needs.

☑ *Is Fault-Tolerance a Concern?*

The Problem: Traditional, tightly coupled designs are not as resilient as more modern, loosely coupled software. Worse, without an effective feedback mechanism, it's harder and more time-consuming to address failures when they do occur.

The Solution: VANTIQ uses a clustered configuration with built-in failover, so a single node failure does not translate into an interruption of service. Application updates are dynamic so there is no downtime. The bottom line? The desired levels of uptime for your mission-critical systems.

☑ *Do You Need Flexibility to Support New Technologies?*

The Problem: Are you looking at running IoT, AI, or some other modern technology that generates huge data streams? Is there some new, industry-specific technology that is central to your organization's core function? Not all development tools can adequately support the rapidly evolving technology landscape.

The Solution: The VANTIQ platform supports open standards common to modern technologies and industry-specific standards including Kafka, MQTT, REST, AMQP, and OPC UA. As the technologies and standards used in IoT, AI/machine learning, and edge computing continue to evolve, VANTIQ will be there to help you get the most out of them.

If you answered Yes to 3 or more of these questions, VANTIQ-based EDA could be a good fit for your digital transformation. For a free business process assessment, contact Info@VANTIQ.com.

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Customers around the globe rely on VANTIQ to quickly and easily create the next generation of transformative digital applications to serve the Internet of Things (IoT), artificial intelligence (AI), and other use cases for smart cities/buildings, oil and gas, healthcare/life sciences, and telecommunications, among other industries. VANTIQ powers these mission-critical real-time business operations with our low code event-driven architecture (EDA) application development platform. Founded in 2015 by renowned business and technology leaders Marty Sprinzen and Paul Butterworth, VANTIQ dramatically reduces time-to-market, significantly lowers development and maintenance costs, and provides maximum agility in response to constantly changing operational requirements. Learn more at www.vantiq.com.

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