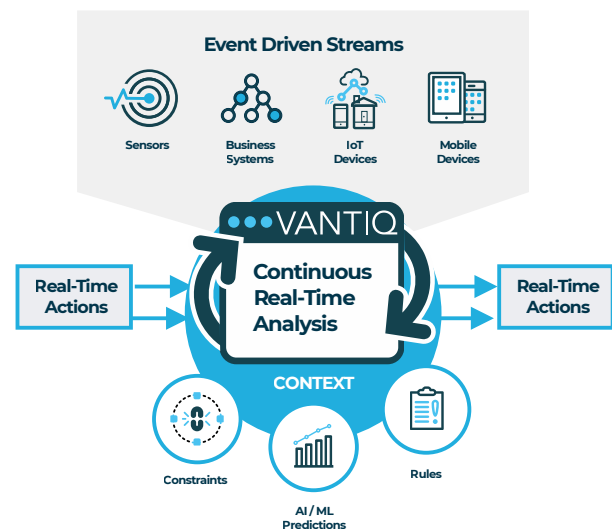# World's Only Agile, Event-Driven Application Development Platform

VANTIQ® allows modern enterprises to operate in real time and transform their business by using event-driven architecture (EDA). The VANTIQ application platform-as-a-service (aPaas) allows rapid, iterative creation of event-driven applications.

Fundamentally, event-driven applications function as follows:

- Events stream in from sensors (including cameras), Internet of Things (IoT) devices, business systems such as enterprise resource planning (ERP) or customer relationship management (CRM) systems, or mobile devices.

- As data flows in real time, the event-driven application continuously looks for situations of interest.

- The application connects to other systems, including legacy databases and machine learning algorithms, to add additional context.

- As a result, specific actions are taken in real time by people and/or machines – as directed by the application.

- The actions themselves are also events, which need to be processed, so the process continues.

Event Driven Streams — Sensors, Business Systems, IoT Devices, Mobile Devices — Real-Time Actions — Continuous Real-Time Analysis — CONTEXT — Constraints, AI/ML Predictions, Rules — Real-Time Actions

VANTIQ powers the next generation of application development across all stages of the project lifecycle

DESIGN
Simply convert high-level operational processes into the framework for a real digital application.

DEVELOP
Low code tools enable you to quickly build applications to achieve business benefits from any sources of data.

DEPLOY
VANTIQ can be distributed in any environment from the edge to the cloud and scale up to any size application.

MAINTAIN
VANTIQ applications can be easily evolved as the business requirements and technologies inevitably change.

The VANTIQ platform powers real-time business

The VANTIQ platform consists of two modules: the VANTIQ Modelo™ aPaaS and the VANTIQ Pronto™ advanced event broker. Both modules sit on top of shared platform services. Attributes of the platform include:

EVENT-DRIVEN ARCHITECTURE – To ensure an unlimited number of events can be acted upon in real time, you need an asynchronous and non-blocking platform. That's why the entire VANTIQ platform is implemented on a reactive framework.

SYSTEM MODELER – VANTIQ includes a component for collaborating on application requirements, defining and documenting business events, and auto-generating application structures.
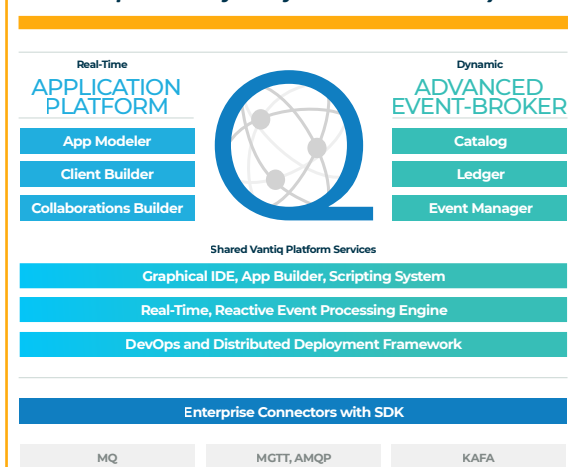
GRAPHICAL (LOW-CODE) INTEGRATED DEVELOPMENT ENVIRONMENT (IDE) – The VANTIQ IDE supports the visual declaration of components and high-level scripting for more complex elements of event-driven applications not suited to visual development.

ENTERPRISE CONNECTORS – VANTIQ provides adapters for a number of commonly used enterprise systems, public data sources, and social data sources including representational state transfer (REST) and advanced message queuing protocol (AMQP); email, short message service (SMS), and messaging systems; enterprise application integration (EAI) packages; OPC Unified Architecture (OPC UA), and Tensorflow for image recognition. The Enterprise Connector SDK allows the rapid development of further integrations as required.

EVENT CATALOG – VANTIQ simplifies searching, finding, and re-using events from a central event catalog. This enables the sharing of event streams and the rapid development of an integrated system of real-time applications.

DISTRIBUTED DEPLOYMENT FRAMEWORK – VANTIQ allows rapid deployment to an arbitrary topology of an unlimited number of nodes across a distributed environment. These nodes could be realized as multiple public or private clouds and also as nodes running on edge devices.

The Complete Platform for Event-Driven Systems

Real-Time
APPLICATION PLATFORM

Dynamic
ADVANCED EVENT-BROKER

App Modeler	Catalog
Client Builder	Ledger
Collaborations Builder	Event Manager

Shared Vantiq Platform Services

Graphical IDE, App Builder, Scripting System

Real-Time, Reactive Event Processing Engine

DevOps and Distributed Deployment Framework

Enterprise Connectors with SDK

| MQ | MGTT, AMQP | KAFA |

THE REAL-TIME APPLICATION PLATFORM
Modelo is a next generation, high-productivity, "reactive-based" platform that allows developers to quickly and flexibly build end-to-end next-generation, event-driven applications.

THE DYNAMIC ADVANCED EVENT-BROKER
Pronto is a dynamic real-time event management platform that combines advanced event-broker capabilities with distributed infrastructure and high-productivity tools to simplify large-scale event management.

VANTIQ

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