VANTIQ

PUBLIC SAFETY SOLUTION

# Real-Time Orchestration for Public Safety

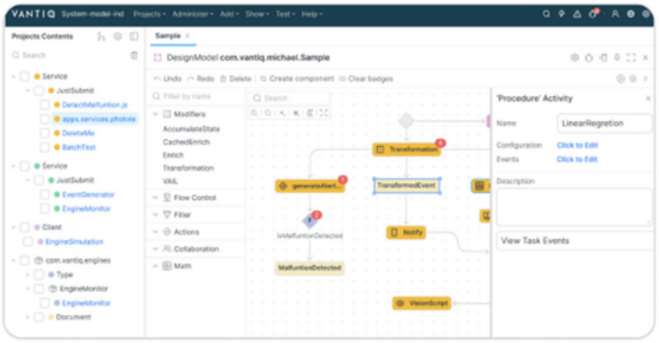
Vantiq's mission-critical operational AI platform provides the real-time integration and event-driven orchestration required for today's AI-driven applications, setting a new standard for public safety. It seamlessly coordinates disparate data, systems, cameras, and AI technologies to detect, interpret, and act on incidents as they unfold.

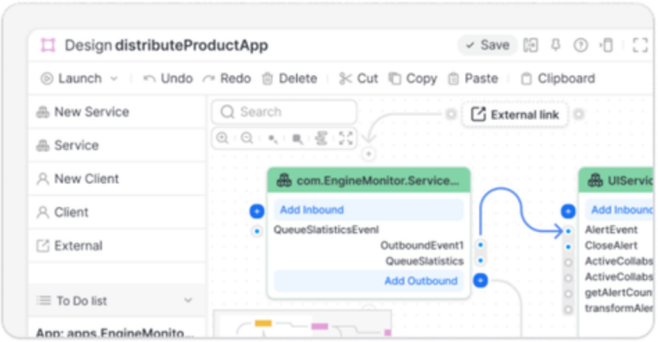
Through dynamic orchestration of systems and people, Vantiq ensures swift, coordinated responses, enhancing decision-making and operational efficiency. Built with unparalleled reliability and scalability, the Vantiq Operational AI Platform is uniquely capable of enabling solutions that are agile, future-ready, and tailored to the complex demands of modern public safety.

## Next-Generation Features

- Orchestrates AI and multi-agent systems asynchronously
- Event-driven, distributed and federated
- Runs multiple AI models simultaneously
- Patented technology to enhance AI trustworthiness
- High velocity data in digital and physical environments
- Automated GenAI prompting and learning in real-time

## Simplify the Complex – From Idea to Production in Weeks






D-Resilio · Texas A&M Transportation Institute · NEC · NTT DATA · KAFD · Smart Cities Council · HURON

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## Primary Public Safety Use Cases

**National-to-Individual Command & Control**
Real-time disaster management from national coordination down to individual responders.

**Healthcare & Personnel Health Monitoring**
AI-driven systems spanning hospital control centers, patient monitoring, and cognitive performance.

**Multi-Domain Command & Control**
AI-driven command, risk management, and execution across air and joint operations domains.

**Multi-Drone Command & Control**
Enabling individual operators to command multiple unmanned drones simultaneously in the field.

**AI Orchestration for Major Facilities**
Real-time orchestration for complex, large-scale facilities with demanding operational requirements.

**Border Security**
Unified integration of sensors, command systems, and response tools for large-scale border operations.

## Real-World Deployments

### Real-Time Traffic Management System (Texas A&M Transportation Institute & Vantiq)

AI-powered traffic management enhances safety and optimizes flow in real time.

- **AI-orchestrated traffic control:** coordinates sensors, V2X, and AI to dynamically adjust signals and reroute traffic in real time
- **Predictive safety management:** anticipates incidents and automates response to reduce congestion and improve safety

### Intelligent City-wide Security Platform (NEC, KAFD & Vantiq)

NEC is building an advanced safety and security system for a smart city near Riyadh, leveraging cutting-edge AI-powered technologies.

- **AI-enabled surveillance:** 11,000 cameras autonomously monitored in real time with facial recognition, object tracking, and real-time threat detection capabilities
- **Integrated security management:** AI orchestration of cameras, sensors, and security systems to deliver real-time situational awareness and coordinated response

### Japanese disaster management platform (NTT Data, D-Resilio & Vantiq)

A real-time disaster management platform deployed across Japan, unifying data, AI, and systems to orchestrate coordinated emergency response.

- **AI-driven threat analysis:** integrates sensors, satellite imagery, and vision AI to detect and analyze natural disaster threats in real time
- **Coordinated emergency response:** orchestration of data, AI, and emergency systems to enable adaptive, real-time response at scale

See how real-time orchestration and AI-driven automation can transform your public safety operations.

Schedule a live demonstration and discover what's possible.

Visit www.vantiq.com