

# The Next-Generation in Distributed Data Intelligence



## Why Real-time Distributed Data Intelligence?

Organizations generate massive amounts of operational data but often struggle to extract real value to drive business impact due to data silos, inconsistent formats, and delayed processing. Real-time distributed data intelligence provides a scalable, reliable foundation to go from raw data to operational insights, breaking down silos to deliver a single source of truth for operational data. This enables seamless data accessibility, actionable decision-making, and measurable ROI, empowering businesses to thrive in a data-driven world.

## Business Impact of Real-Time Data Intelligence

**\$13M**  
Savings

Poor data quality costs organizations millions yearly, increasing complexity and hindering decisions (*Gartner*)

**62%**  
Higher Revenue

Companies successfully operating in real-time environments outperform competitors (*MIT*)

**30%**  
Faster Decisions

Organizations utilizing live data insights improve their decision-making speed (*Deloitte*)

## How HiveMQ Pulse Helps

HiveMQ Pulse is a next-generation distributed data intelligence platform that transforms unstructured data into actionable insights. It unifies data from edge to cloud within a structured namespace, delivering high-throughput, contextualized insights precisely where they have the most impact.

### Unified Data Management

Ensure data consistency by cataloging, transforming, and governing information in a unified namespace, enabling interoperability, standardization, and OT-IT integration.

### Real-time Actionable Insights

Process and contextualize data in motion to reduce delays, improve efficiency, minimize downtime, and drive faster, data-driven decisions.

### Distributed Intelligence

Reduce latency and enable real-time automation by integrating a calculation engine and AI/ML models at the edge for enhanced predictions and optimized workflows.

### AI-Ready

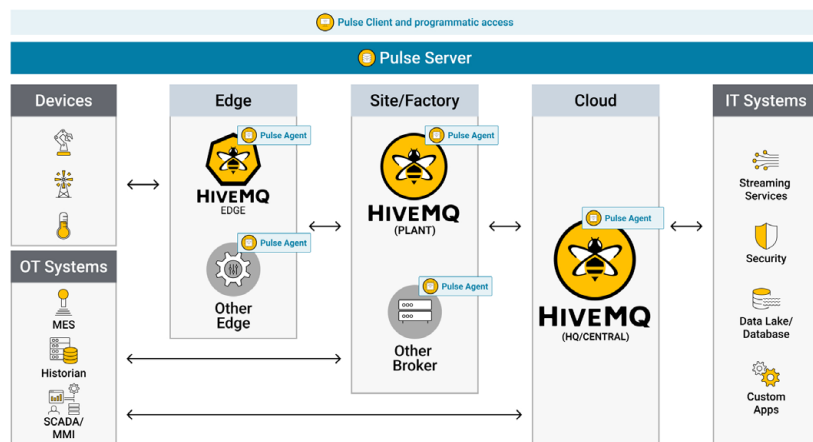
Deliver complete data from edge to cloud for seamless AI integration. Govern and contextualize at the source to improve model accuracy and accelerate AI-driven insights.

## HiveMQ Customers



## HiveMQ Pulse Architecture

With a flexible architecture uniquely suited to support a Unified Namespace (UNS) approach, HiveMQ Pulse allows you to manage, transform, govern, and derive insights from distributed devices and systems, providing a single, structured view of operational data across the enterprise.



### Pulse Client

Secure graphical web app that interfaces with the Server to visualize, query, and manipulate the data models, provide dashboards, and facilitate interaction.



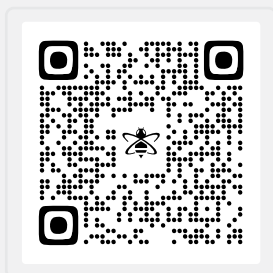
### Pulse Agent

Connects to the broker, or information source, and indexes and processes data with a distributed calculation engine. Historicizes and governs in-flight while enabling real-time queries.



### Pulse Server

Acts as an orchestrator, responsible for knowing where the data is, manages information models, authorizes Agents, and orchestrates queries.



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“As UNS evolves it will drive deeper integration, smarter operations, and significant innovation across industrial ecosystems.”

Anand Taparia / Principal Analyst, **IoT Analytics**

## HiveMQ Pulse Capabilities

### Historical Analysis

Make decisions rapidly with the ability to store and analyze specific data sets where they are generated.

### UNS Data Catalog

Organize and standardize data into a consistent, queryable structure accessible across the enterprise.

### IoT Streaming Governance

Transform data in flight, passing only the most relevant, contextualized data to cloud and enterprise systems.

### Real-time Events

Leverage an enterprise-grade MQTT backbone for scalable, event-driven data streaming from edge to cloud.

General availability coming later in 2025. Learn more at [www.hivemq.com/products/hivemq-pulse](https://www.hivemq.com/products/hivemq-pulse) →