

A New Standard 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. Unlike proprietary Industrial DataOps or traditional data analytics platforms that rely on data warehouses and batch processing, HiveMQ Pulse enables in-flight data transformation, AI/ML integration, and seamless OT-IT connectivity.

Key Components

Pulse Server

Manages information models, authorizes Agents, and orchestrates queries. Scalable for policy enforcement, high-throughput processing, and seamless OT-IT integration.

Pulse Agent

Indexes and processes edge data with a distributed calculation engine. Filters, historicizes, and governs in-flight messages while enabling real-time queries and compute tasks.

Pulse Client

Secure web app for managing data models, policies, and queries. Supports UNS modeling, structured data interaction, and simple dashboards for actionable insights.

HiveMQ Customers



HiveMQ Pulse Capabilities

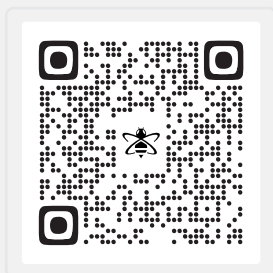
With a flexible architecture uniquely suited to support a Unified Namespace (UNS) approach, HiveMQ Pulse allows you to manage, transform, govern, and derive insights from distributed devices and systems, providing a single, structured view of operational data across the enterprise.

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.

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

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



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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**

Benefits of Using HiveMQ Pulse

Unified Data Management

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

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.

Real-time Actionable Insights

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

AI-Ready

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

General availability coming later in 2025. Learn more at www.hivemq.com/products/hivemq-pulse →