

SOLUTION BRIEF

Make Industrial Data AI-Ready

HighByte Intelligence Hub delivers contextualized industrial data at scale to the Snowflake AI Data Cloud for Manufacturing with a low-code, on-premises solution.

Industrial data comes from a wide variety of IT systems and Operational Technology (OT) sources including historians, MES, SCADA, PLCs, databases, and files. Making use of this data in the Snowflake AI Data Cloud for Manufacturing is a major challenge.



Industrial Data is Different

OT data is unlike IT data. Industrial devices and applications come from many different solution providers, have a 10x longer lifecycle than IT solutions, and are difficult to change. There is little flexibility in how these solutions natively interoperate with external systems. They produce “raw” data at a greater volume and velocity than IT systems. The data is missing significant context. Making industrial data “look” like an IT-based data source requires Industrial DataOps.

Enter Industrial DataOps

HighByte Intelligence Hub provides industrial companies with an off-the-shelf DataOps solution to accelerate and scale the use of operational data throughout the enterprise by contextualizing, standardizing, and securing this valuable information. Run the software at the Edge to merge and model data from industrial data sources into structured payloads to create performant, bi-directional data pipelines with Snowflake at scale.

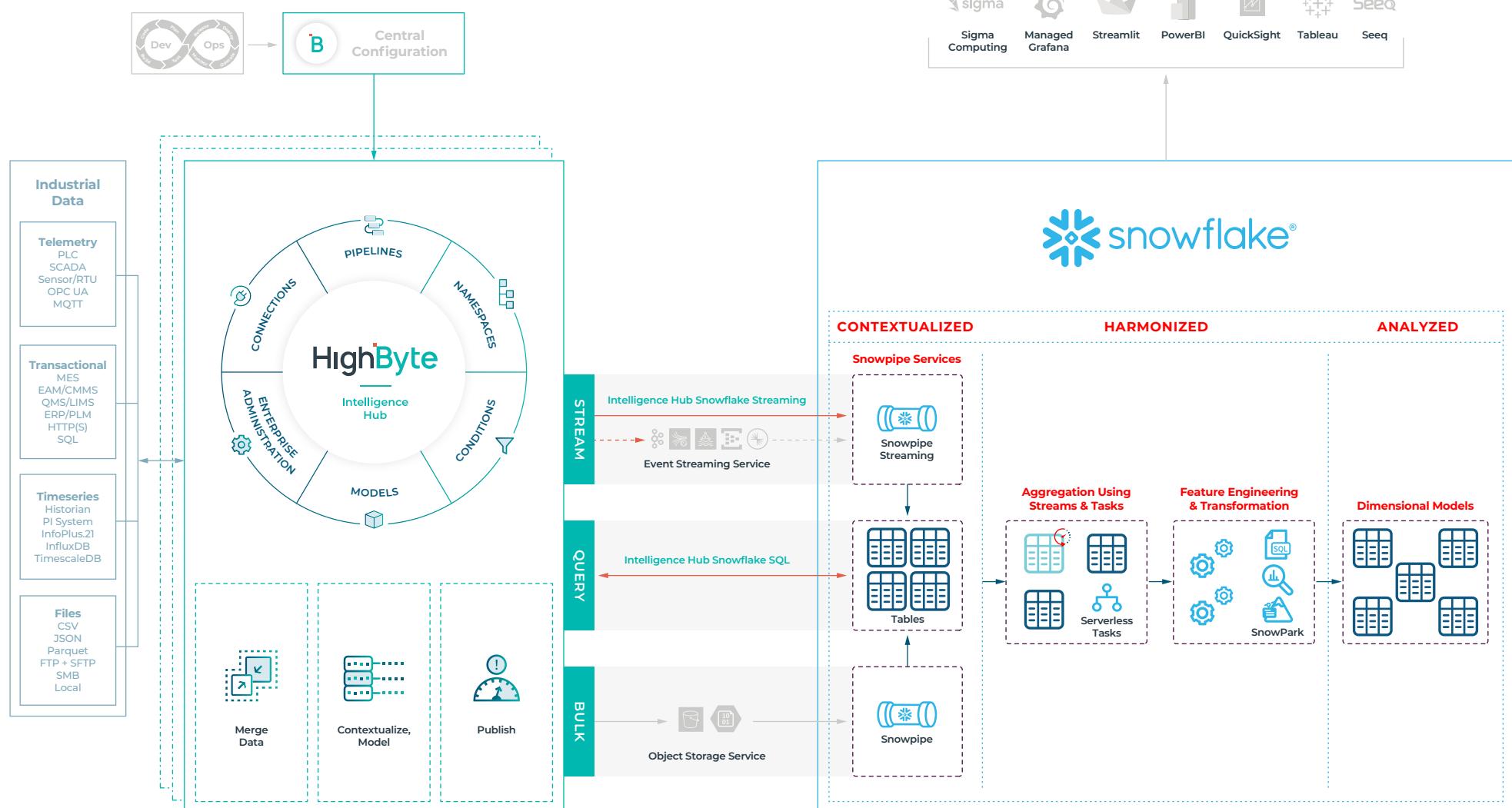
Together, HighByte and Snowflake can make your industrial data more usable and insightful, whatever digital transformation project comes your way.

- Normalize ingestion of industrial datasets across systems, assets, lines, sites
- Contextualize raw industrial data for use beyond OT process control
- Eliminate tedious and unsustainable data preparation of industrial data in Snowflake
- Efficiently ingest events as they occur for “real time” operational visibility and decision support
- Backfill and replicate databases and historians
- Foster collaborative integrations between OT and IT subject matter experts
- Architect, manage, monitor, and secure data pipelines that meet the needs of industry
- Gain access to valuable operational data and enable Industry 4.0 outcomes with Snowflake Cortex AI

“Lindt was able to accelerate digital transformation with a manufacturing solution jointly offered by Snowflake & HighByte for connecting, contextualizing, and storing data within Snowflake for deeper insights without heavy lifting. The initial data visualizations alone helped us gain insights, making process adjustments that led to more stable production quality.”

JESSICA VALLI

Digital Transformation Program Manager at Lindt & Sprüngli



HighByte Intelligence Hub elevates Snowflake as a data platform with its unique capabilities to connect to OT environments and construct advanced data pipelines.

Supported Workloads



Data Warehouse

The Intelligence Hub connects to a wide variety of industrial data sources including telemetry, transactional, and historical systems. It can merge and model data in a consistent and usable format for Snowflake.



Data Lake

The Intelligence Hub is agnostic about industrial data sources and formats. It can move BLOB files as well as structured and semi-structured data. It can deliver curated datasets to Snowflake that are highly tabular or with varied structure.



Data Engineering

The Intelligence Hub collects, transforms, consolidates, contextualizes, standardizes, and curates industrial data to the needs of Snowflake to accelerate time-to-value.



AI and Data Science

The Intelligence Hub optimizes AI and Data Science workloads by delivering ready-to-use, standardized, and contextualized datasets to Snowflake.

“With the Intelligence Hub, Snowflake customers will benefit from modeled industrial data that reflects the reality of their operations and not the constraints of a connector and underlying industrial data sources. HighByte Intelligence Hub makes advanced use cases a reality for our industrial customers, including closed-loop event handling at the edge based on anomalies detected from ML/AI workloads in the Snowflake Data Cloud. We look forward to continued collaboration with HighByte to ensure our customers get even more value from Snowflake’s single, integrated platform.”

PUGAL JANAKIRAMAN

Industry Field CTO for Manufacturing at Snowflake

About Snowflake

Snowflake makes enterprise AI easy, efficient and trusted. More than 11,000 companies around the globe, including hundreds of the world's largest, use Snowflake's AI Data Cloud to share data, build applications, and power their business with AI. The era of enterprise AI is here. Learn more at snowflake.com.

About HighByte

HighByte is an industrial software company addressing the data architecture and integration challenges faced by global manufacturers as they digitally transform. HighByte Intelligence Hub, the company's proven Industrial DataOps software, provides modeled, ready-to-use data to the Cloud using a codeless interface to speed integration time and accelerate analytics. Learn more at highbyte.com.

