

Belden Horizon™ Data Operations & Data Manager

Industrial Data Management Software

Product Bulletin



Belden Horizon Data Operations (BHDO) addresses industrial data complexity through secure, managed data access, analytics and integration. Belden Horizon Data Manager (BHDM) manages distributed BHDO deployments.

- **300+ OT protocols supported** with dozens of integrations into IT systems.
- **Digital twins and analytics tooling** empowers users to collect, contextualize and analyze data at the edge.
- **Secure, reliable and flexible deployment architectures** from containers on edge devices to virtual machines (VMs) on servers.

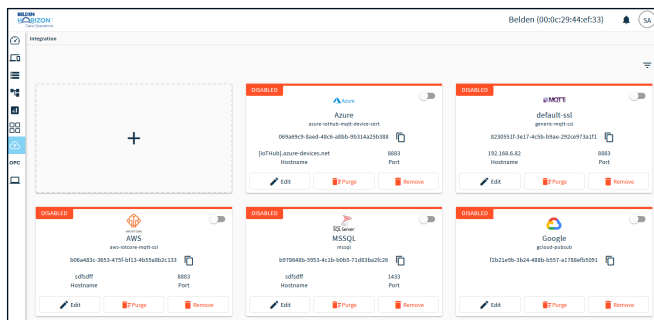
Key features

BHDO

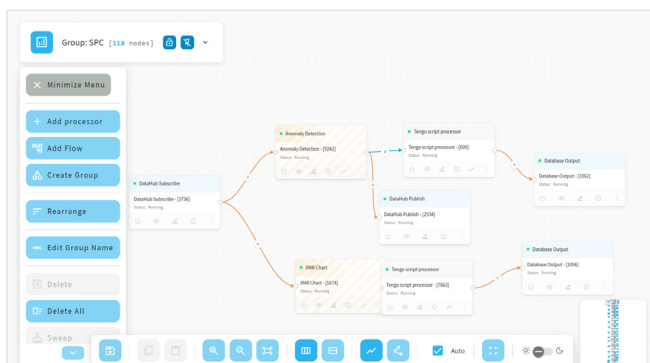
- Provides everything required for Industry 4.0, including OT connectivity, machine analytics, data integration and application enablement.
- Gathers data from any OT asset and normalizes it into a standard, ready-to-use format for edge, cloud and enterprise applications.

BHDM

- Simplifies management of large-scale Industrial Internet of Things (IIoT) deployments, providing visibility and control of devices, data, applications and machine learning (ML) models.
- Centralizes control of hosting, deploying and updating of containerized applications on any device running BHDO.



With BHDO, you can collect OT data from the network edge and transfer it to IT destinations for analysis and action



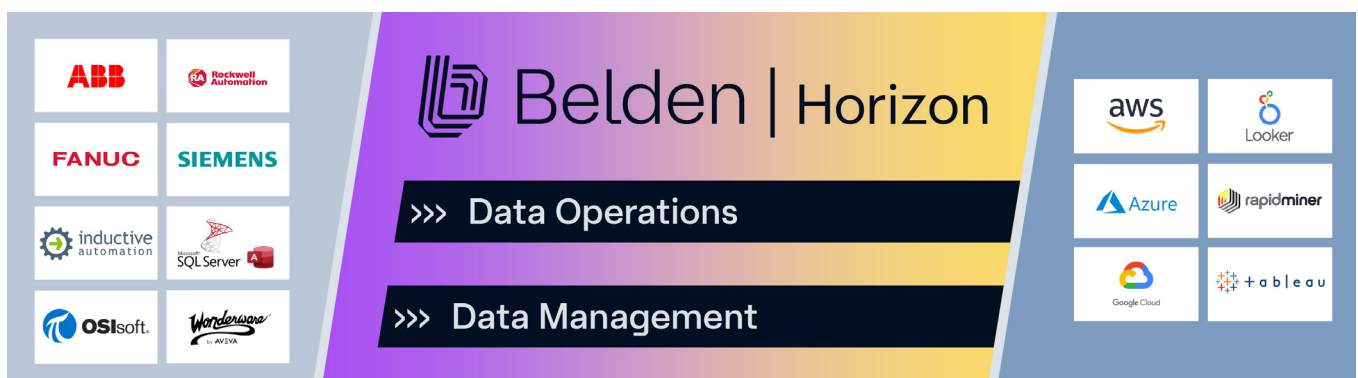
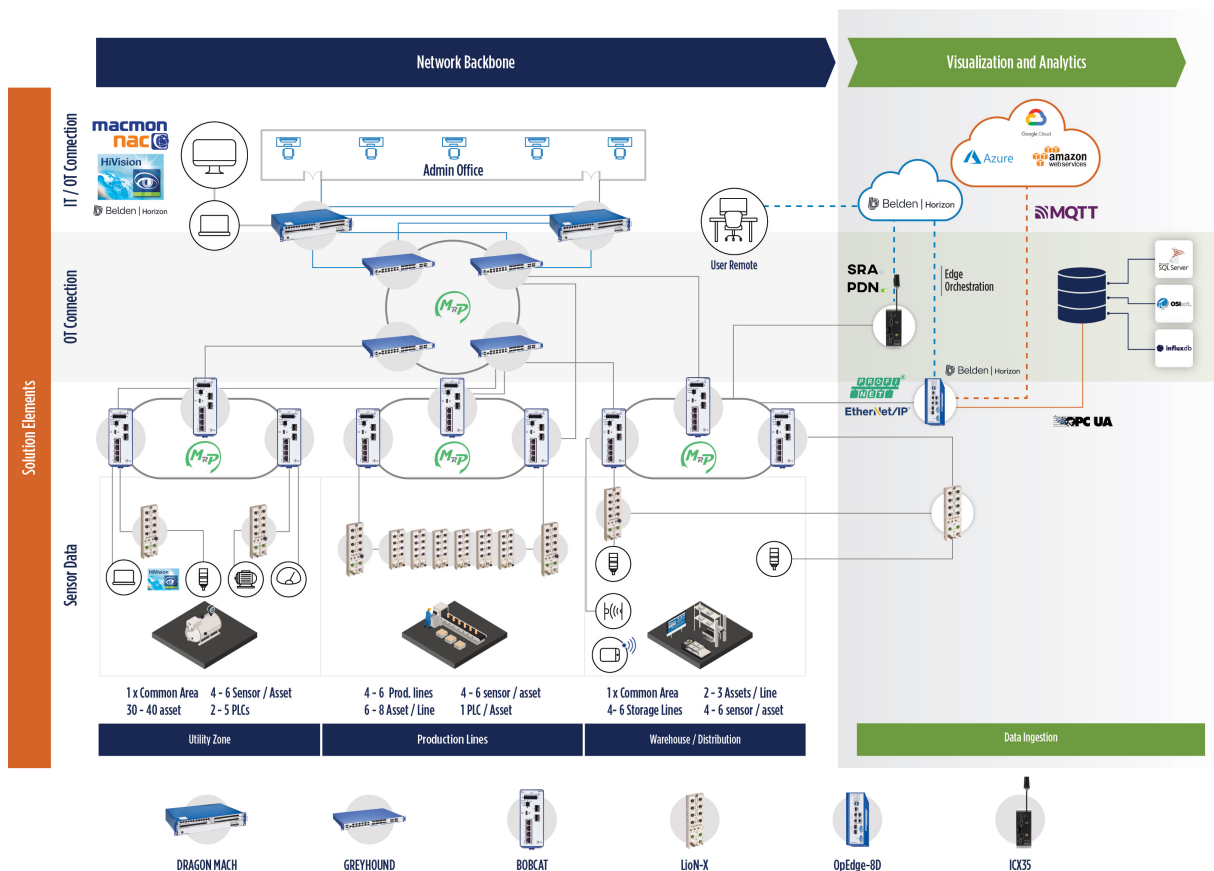
BHDO data ingestion use case

A robust data ingestion process efficiently and effectively connects various data structures — making sure the data is harmonized, is in the correct format and has the same level of quality. BHDO improves data ingestion by connecting to both new and existing systems, integrating seamlessly with cloud and enterprise applications, and sending data to any destination.

This use case demonstrates how BHDO facilitates data ingestion.

- OpEdge-8D sits on a Hirschmann network with BOBCAT HiOS managed switches in a media redundancy protocol (MRP) ring
- Sensors and stack lights connect to a Lumberg Automation Lion-X I/O module
- Running on the Hirschmann OpEdge-8D, BHDO is converting Ethernet protocol (Ethernet/IP) to MQTT or OPC-UA protocols and normalizing the data for ingestion by Azure, Amazon Web Services (AWS), Google Cloud Platform (GCP) and others.

Data ingestion on existing infrastructure



Connect to what's possible.



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