

DATASHEET

AVEVA™ Data Hub

Use, share, and analyze real-time operations data in the cloud

AVEVA Data Hub enables industrial organizations to easily create real-time data-sharing communities in the cloud. Users can aggregate operations data and enrich it with relevant context, store historical, real-time, and forecasted data, and securely share data streams and insights with stakeholders both in and outside of the enterprise. A cloud-native software-as-a-service, AVEVA Data Hub is easily deployed from a web interface and scalable on-demand. Requiring no development or infrastructure, AVEVA Data Hub simplifies secure data sharing for greater operational insights and enables better, faster decisions.

“AVEVA Data Hub allows us to share targeted operations data streams with our key external partners while eliminating cybersecurity exposure.”

Energy Customer, IT Delivery Lead, Energy Provider

Overview

AVEVA Data Hub expands your ability to share real-time operations data with authorized users, applications, and analysis tools in any location. Reduce the time, effort, and resources it takes to collect, standardize, and securely share critical operations data. Thanks to AVEVA Data Hub, real-time, contextualized operations data is more accessible than ever, giving users in and outside of the enterprise the information they need to drive meaningful change.

Key features

- Optimized for industrial data
- Ready-to-use software-as-a-service (SaaS)
- Scales on demand
- Protects critical operations
- Secured through proprietary software design
- Natively connects to AVEVA™ PI Servers, AVEVA™ Historians, Edge Data Stores, and AVEVA™ Adapters

Key uses for AVEVA Data Hub

- **Advanced data analysis:** Enable key stakeholders to look deeper and get answers faster. Give analysts self-service access to consistent operations data and related contextual information. Allow users to make ad hoc queries with no impact on critical operations. Deliver formatted data directly to popular platforms like Grafana and PowerBI.
- **Remote monitoring:** Reduce the cost and effort of monitoring assets outside your control network. Aggregate a wide variety of IIoT and sensor data to enable local or remote performance monitoring.
- **Industrial data-driven services:** Use the client's real-time operations data as the foundation for valuable new industrial services. Open up new revenue streams and differentiate services from other providers with easy and cost-efficient data access.
- **Connected communities:** Enable bi-directional sharing of selected, real-time operations data with any number of ecosystem partners. Build a secure, information-focused network of interlinked partners to create new business value.



Figure 1: AVEVA Data Hub trending lets you visualize performance over time.

Capabilities

Unique capabilities make it easy to share relevant, real-time data with trusted colleagues and partners.

Asset definition

- Modern search techniques for easy data discovery.
- Grouping of data streams by asset or asset type.
- Fleet asset identification based on current status or type.
- Metadata identification options such as equipment manufacturer or model number.

Data views

- Preconfigured tabular datasets to join stream data with metadata and tags.
- Shaping function to align and format interpolated data.
- Flexible REST APIs programmatically deliver data to any application or analysis tool.

Communities

- Multi-tenant architecture designed natively for the cloud, enabling users to securely share select data in a bi-directional flow across tenants.
- Full management, visibility, and granular control around what data is shared with each business partner.
- Multiple ways to consume data, either within AVEVA Data Hub, or externally via PowerBI, AI and ML platforms, third-party analytics tools, or other cloud applications via REST APIs.

Trending

- Keyword searches to quickly find relevant data streams, trends, and asset properties.
- Fast, automatic calculations for highlighted data ranges.
- Shareable URLs for easy, web-based access to common workspaces.

Seamless integration with AVEVA solutions

AVEVA Data Hub serves as the foundation for the strategic use of operations data and the basis of predictive analytics, smart manufacturing, digital twins, and more. AVEVA Data Hub natively integrates with AVEVA Historian and AVEVA PI System, orchestrating the flow of IIoT data from the edge and on-premises AVEVA PI Servers to the cloud. By providing data visualization, assets, and views over a sequential data store, AVEVA Data Hub enables stakeholders to easily use artificial intelligence (AI), machine learning (ML), analytics, reporting, and monitoring tools as well as data applications.

Available on AVEVA Connect

AVEVA Data Hub is available to customers through the AVEVA™ Connect portal. With AVEVA Connect, our industrial cloud platform, you'll gain access to AVEVA's full portfolio of secure, easy-to-deploy industrial SaaS solutions. With tools that are easy to access and manage across any global enterprise, you can accelerate your time to value and optimize at scale.

[Learn more](#)
about what AVEVA Data Hub can do for you.