

AVEVA



BROCHURE

AVEVA[™] Asset Information Management




Deliver projects on time and improve safety and operational performance with rapid, intuitive access to the Digital Twin

Information is the lifeblood of any engineering project and asset performance management strategy. AVEVA Asset Information Management delivers a continuously evolving single source of truth across an asset's life cycle. It provides governance and stewardship of information to support decision-making and achieve effective project and asset performance management.

Overview

Across all industries, the fabrication, maintenance, and operation of complex assets requires accurate information. It is common, however, to see asset models, maintenance information, manufacturers' data, P&IDs, and other data stored in a variety of different formats in unconnected repositories, often with teams dispersed across various global locations.

This approach results in data silos and a severe lack of transparency, efficiency, and trust within organizations, creating obstacles such as:

		
Finding relevant and complete information	Lack of information standards	Maintaining regulatory compliance and safe operations
<p>Accurate, effective decision-making relies on being able to find the correct information at the right time.</p> <p>The lack of a trusted Digital Twin results in late projects, unplanned downtime attributed to delays in finding information, wasted person-hours searching for data, and increased risks to maintenance workers.</p>	<p>Up to 40% of project information is created outside of design applications.</p> <p>Multiple data types stored in different systems across the enterprise with no standardization undermine the ability to correlate different data sources, assess and validate information, and get actionable insights.</p>	<p>When managing complex assets, owners-operators face challenges to ensure the integrity and trustworthiness of the “as-operated” asset information.</p> <p>The inability to promptly recall vital engineering information makes it challenging to demonstrate regulatory compliance and guarantee safe operation.</p>

AVEVA Asset Information Management turns data from multiple information sources and systems into trusted actionable insights, identifying and cross-referencing all the relationships between equipment, documents, drawings, and various data formats. This structure enables users across businesses to securely access, visualize, validate, and collaborate on the Digital Twin data.

It accelerates information discovery and links distributed teams to a common data asset via one unique application. The solution facilitates better decision-making based on data to optimize project schedules, operational performance, and safety while reducing risk.

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Once a perception that data quality is poor has been established, it can be a very difficult perception to correct.
Ref. IAM Institute / Asset Information, Strategy, Standards and Data Management SSG
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The cost of poor asset information equates to 1.5% of sales revenue per annum.
Ref. NIST Study / SAP-Centric EAM
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Business benefits

A centralized project management center

AVEVA Asset Information Management provides a full view of the entire project, empowering teams to:

- Manage vast quantities of information, saving up to 60% of the time spent searching and validating information
- Assess information quality, avoiding up to 10% of plant construction errors attributed to inconsistencies between documents
- Control project schedule and cost

Progressive handover

Turn traditional end-of-project handover into an incremental flow of approved data for operations throughout the project. AVEVA Asset Information Management enables teams to:

- Improve processes for sharing information between EPC, CAPEX, and OPEX teams to avert start-up delays and handover costs of up to 4.2% of CAPEX
- Define the complete scope and requirements of information for operation, eliminating errors and inconsistent or missing information
- Trust in project data for operation, saving money and time looking for, validating, or recreating information that should be readily available

Enhanced asset performance

By combining 1D, 2D, and 3D navigable visualizations of equipment and plants with real-time data and analytics, AVEVA Asset Information Management allows teams to:

- Maintain an up-to-date, trusted digital representation of the plant with the ability to assess the quality of “as-operated data,” manage changes, and enforce information standards

- Virtually inspect asset health and see how the business is operating in real time
- Find relevant and complete information in three minutes or less, avoiding unplanned downtime, putting workers at risk, or wasting time in searching and collation of data

Improved safety and regulatory compliance

With easy access to a trusted digital representation of the actual as-operating state of the asset, it's easy to recall documents and critical data. Companies can respond more quickly to incidents, helping ensure safety, demonstrate regulatory compliance, and avoid fines and penalties.

Reduced costs

Get the benefits of an information management solution without the overhead of installation, deployment, version control, and hardware maintenance.

AVEVA Asset Information Management is also available through AVEVA Connect – our secure, reliable, and scalable cloud platform – delivering:

- Minimum risk throughout implementation and operation with a fully managed service supported through a service-level agreement
- Reduced training costs with easy-to-use software accessed online
- No cost for initial setup or updates: AVEVA will work to continuously improve, support, and maintain the software

Key capabilities

Universal access to the Digital Twin

AVEVA Asset Information Management is an agnostic solution, capable of ingesting data in various formats from multiple systems. It provides a complete cross-reference index with links to and associations between all items in the Digital Twin.

Automatic information discovery

Our solution automatically extracts and maintains tag-to-tag, tag-to-document, and document-to-document relationships to provide efficient navigation of the Digital Twin and aid information discovery.

Powerful search capabilities

Get fast, powerful search capabilities which, combined with its knowledge of tag and document associations, deliver information locations efficiently and effectively.

High-quality visualization

AVEVA Asset Information Management delivers high-quality, web-based visualization of tag data, documents, drawings, 3D models, and laser scans. The automatic creation of hotspots and hyperlinks provide additional intelligence for the easy identification and navigation of tags.

Data quality assessment

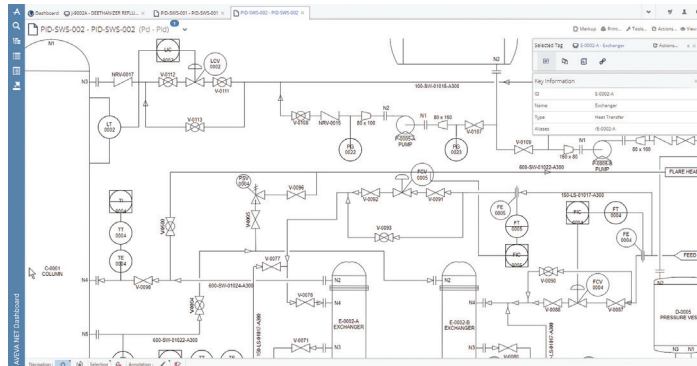
Through its aggregation of project and asset data, AVEVA Asset Information Management can report on the quality, consistency, and completeness of data, improving compliance and enabling efficient handover operations.

Asset information management in the cloud

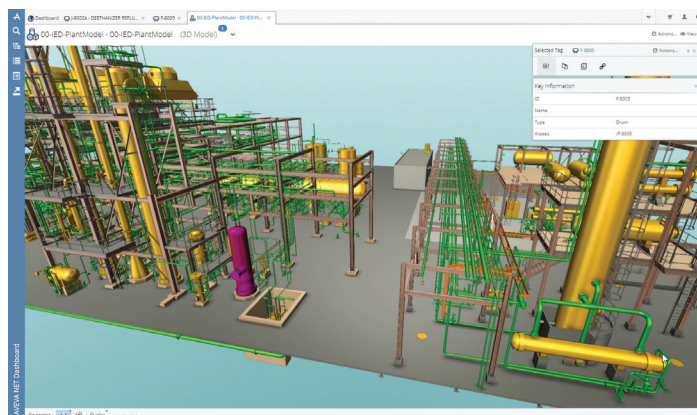
AVEVA Asset Information Management can be deployed on-premises or as a private cloud service provisioned by AVEVA through our AVEVA Connect cloud platform.

This system allows organizations to quickly and securely share critical information with employees and trusted partners so everyone can access and collaborate using the same data.

Cloud also offers commercial flexibility with various subscription approaches. The company's IT burden is also reduced because AVEVA provides the necessary computing infrastructure, backup, updates, security, and performance.



2D visualization - hotspotted P&ID



3D model visualization



Our solutions

AVEVA™ Asset Information Management Discovery

AVEVA Asset Information Management Discovery is tailored for owners and operators looking to improve governance for asset life cycle information and lower the total cost of asset ownership. It provides a continuously evolving single source of truth across the asset life cycle through a scalable and repeatable cloud solution, delivered through AVEVA Connect, for universal access to engineering and asset information.

By standardizing the deployment, implementation timelines are significantly reduced from many months to just a couple of weeks, so businesses can start seeing positive outcomes quicker than ever before.

AVEVA™ Asset Information Management Advanced

AVEVA Asset Information Management Advanced gathers data from multiple information sources and systems to deliver intuitive access to the Digital Twin with information that accurately describes the current condition of the physical asset, rather than how it was initially designed.

It's a SaaS solution, also delivered through AVEVA Connect, with an information standards-driven approach and a non-intrusive hybrid model that allows customers to connect their on-premises engineering, maintenance, and operational data sources.

AVEVA™ Asset Information Management

AVEVA Asset Information Management is a powerful, web-based Information Management solution delivered on-premises for engineering and operations. It brings together information from multiple sources and formats to enable users across businesses to securely access, visualize, validate, and collaborate on the Digital Twin data.

AVEVA Asset Information Management automatically extracts and maintains tag-to-tag, tag-to-document, and document-to-document relationships making information easier to find and the Digital Twin more efficient to navigate.

To learn more, visit:
aveva.com/en/products/asset-information-management



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