

BROCHURE

AVEVA™ Asset Information Management

Build and sustain the core of your digital twin to deliver projects on time, boost operational performance, and ensure safety and efficiency

An industrial facility produces and updates a staggering amount of data throughout its lifecycle, starting from design and continuing through operations and decommissioning. Collecting and verifying data is essential to building a trusted digital twin, which can help you increase revenue by 1-2% and reduce expenses by 10-30%¹. Unfortunately, among both engineering, procurement, and construction (EPCs) companies and owner operators, data is often siloed across various teams and systems, which makes it difficult to gather, validate, and turn into actionable information.

AVEVA

Overview

AVEVA Asset Information Management is a powerful, web-based solution that aggregates information from multiple sources and in varying formats, enabling users across the business to securely access, visualize, validate, and collaborate on digital twin data.

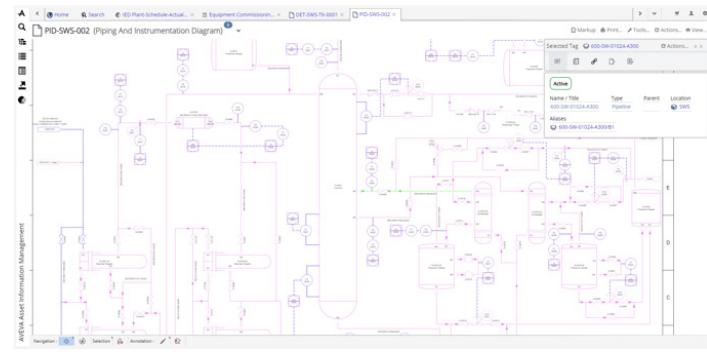
AVEVA Asset Information Management:

- Delivers insights across the entire asset lifecycle, enabling businesses to make faster, better-informed decisions
- Converts multiple and disparate information sources into consolidated, actionable information
- Creates a 360°-view of an asset with detailed information and class-leading information standards management
- Validates data to create a master dataset for operational use
- Accelerates automatic information discovery and links users to a common dataset
- Optimizes performance, reduces downtime, and improves operational readiness
- Provides the benefits of an information management solution without the overhead of installation, deployment, version control, and hardware maintenance
- Improves safety and regulatory compliance
- Ensures smooth, progressive handover from EPCs to owner operators



3D model visualization

Improves governance of asset lifecycle information



2D visualization—hotspotted P&ID

Powerful search capabilities, including advanced search, query form, and full text search

Three side-by-side screenshots demonstrating search functionality. The leftmost screenshot shows the 'Document Form (Query Form)' with a search interface for fields like 'Document Name', 'Type Name', and 'Document Revision Author'. The middle screenshot shows a 'Tag search' results page with a table of tags, including columns for 'Name', 'Type', and 'Description'. The rightmost screenshot shows a 'Full Text search' results page for the term 'inspection', displaying a list of documents with their file paths and descriptions.

Key capabilities

Creates the core of the digital twin

AVEVA Asset Information Management establishes one, common location for all your data, including documents, 3D models, reporting, and laser scans, creating the core of a trusted digital twin. It provides a complete cross-reference index with links to and associations between all items in the digital twin.

AVEVA works with a variety of interoperability working groups and industry standards bodies to offer vendor-neutral, scalable technology. As an agnostic solution, AVEVA Asset Information Management accepts data from any source.

Cloud-based Flexibility

Asset Information Management can be deployed through [AVEVA™ Connect](#), AVEVA's industrial cloud platform. This system allows organizations to quickly and securely share critical information with employees and trusted partners so everyone can access the same data and collaborate seamlessly.

Our cloud platform also offers commercial flexibility with various subscription approaches. AVEVA provides the necessary computing infrastructure, backup, updates, security, and performance, reducing your IT burden.

Document management and control system

Through AVEVA's [strategic partnership](#) with Assai, AVEVA Asset Information Management is integrated with the [Assai Document Control and Management System](#), which proactively controls document revision flows to manage non-intelligent data.

The screenshot shows a detailed view of an asset named 'j-9002B (Pump)'. The interface includes a navigation bar at the top with 'Active', 'Name / Type', 'Type', 'Parent', 'Location', and 'Aliases'. Below this is a search bar and a 'Links' section with buttons for 'Asset Lookup', 'PI View', 'Predictive Analytics', and 'Basic Work Request'. The main content area displays the following details:

- Attributes:**
 - Category: Equipment
 - Asset ID: j-9002B
 - Category Code: PUMP
 - Maintenance System Code: SS
 - Previous Tag Number(s): SS9001A
 - Current Tag Number: SS9002
 - Sub System: SS900-01
 - Tag Class Name: CFHOS_3000550
 - Tag Description: J-9002B Drum Pump (Standby)
 - Tag Name: j-9002B
 - Functional ID: 1
 - Certification Standard: ATEX
 - Content weight: 30 kg
 - Dimensions X: 2000 mm
 - Dimensions Y: 16741 mm
 - Dimensions Z: 51570 mm
 - Is Pressure Vessel: N
 - Is Signal: N
 - Remarks: Rev. 233006/01/27-00-A-00-0008. Compliance with the additional rules/terms applied to ATEX 94/9/EC
- Links:** Asset Lookup, PI View, Predictive Analytics, Basic Work Request.
- External Views:** Asset Components, Parts / Components, Documents and 3D Models.

AVEVA Asset Information Management unifies all information in one place, creating the core of a digital twin.

Automatic information discovery

Fast, powerful search and reporting capabilities, combined with tag and document associations, enable you to find information efficiently and effectively.

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.

High-quality visualization

AVEVA Asset Information Management delivers high-quality, web-based visualization of tag data, documents, drawings, 3D models, and laser scans (via [AVEVA™ Point Cloud Manager](#)). The automatic creation of hotspots and hyperlinks provides additional intelligence for easy identification and navigation of tags.

Improved compliance

AVEVA Asset Information Management is integrated with [AVEVA™ Information Standards Manager](#), which imposes structured, compliant information standards (CFIROS, ISO 15926, ISO14224, etc.).



Reporting and quality assessment

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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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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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	Challenge	Solution: AVEVA Asset Information Management	What our customers say
Engineering procurement construction companies	Up to 40% of project information is created outside of design applications. Because data is stored in multiple formats and systems without standardization, it is difficult to correlate different data sources, validate information, and gain actionable insights.	As a vendor-neutral solution, AVEVA Asset Information Management accepts data from any source and enables EPCs to enforce compliant information standards (CFIHOS, ISO 15926, ISO14224, etc.) and deliver projects in compliance with the owner operator's standards.	<p>“We have now got a scalable, multi-source data application, which is a major advantage for a customer. Because it's not vendor-specific, it readily accepts data from all sources, which can be customized. It's also non-invasive, so it does not affect the source data in any way.”</p> <p>-Mr. V.J. Shanker Engineering Head, L&T Hydrocarbon</p>
	Keeping information up to date for a seamless, transparent handover requires significant time and cost.	Asset Information Management improves processes for sharing information between EPC, CAPEX, and OPEX teams, which helps EPCs reduce errors, avoid start-up delays, and reduce handover costs by up to 4.2% of CAPEX.	<p>“There is a variety of benefits with Asset Information Management, but the most obvious is that all data is visualized in front of us and that leads to a large reduction in time spent finding data associated to various projects.”</p> <p>-Joe Puglisi Project Manager–Internal Initiatives, Burns & McDonnell</p>
	All capital project stakeholders need to access and visualize data—wherever they may be working.	With AVEVA Asset Information Management, EPCs can visualize tag data, documents, drawings, 3D models, and laser scans (via AVEVA™ Point Cloud Manager). The solution provides a complete cross-reference index with links to and associations between all items in the digital twin. And, with the automatic creation of hotspots and hyperlinks, identifying and navigating tags is easy and intuitive.	<p>“Asset Information Management is a key solution to building a digital twin for capital projects. It brings together data from all different systems, integrated and contextualized. It supports end users' decision making and enhances their day-to-day work.”</p> <p>-Rob Kennedy Global Leader of Digital Twin Service Offerings, Wood</p>

Owner operators	<p>The inability to promptly locate information undermines efforts to demonstrate regulatory compliance, guarantee safe operations, and ensure the integrity and trustworthiness of complex as-operated asset information.</p>	<p>AVEVA Asset Information Management provides a single source of truth that helps owner operators easily locate critical data in less than three minutes. Rapid access to trusted information enables users to respond to incidents quickly and comply with contractual information standards requirements.</p>	<p>“Thanks to Asset Information Management, we are now able to utilize consistent information to establish realistic change-management procedures and keep the digital asset of our plant evergreen.”</p> <p>-Orlando Amaral Engineering Systems Administrator, K+S Potash Canada</p>
	<p>Many hours spent searching for documents results in lost productivity and often leads to poorly catalogued handover information, which incurs even further costs.</p>	<p>Up to 10% of plant construction errors can be attributed to inconsistencies between documents. With Assai's document control and management system, AVEVA Asset Information Management can help owner operators assess information quality and avoid those errors.</p>	<p>“Incorrect or incomplete information submitted by partners or suppliers will therefore be rejected, automatically asking them to correct the deficiencies and resubmit the information transfer. This will take place earlier in the delivery process and will ensure that our technical information and document control teams don't get involved until the data is in accordance with BP's requirements.”</p> <p>-Tor Solberg OIH Project Manager, BP Norway</p>
	<p>Engineers typically spend 30-50% of their time just looking for and validating information siloed in spreadsheets, drawings, 3D models, laser scans, and text files, which are often distributed across teams, departments, or various digital tools.</p>	<p>Asset Information Management saves up to 60% of the time engineers spend searching for and validating relevant information, such as maintenance logs, shift handover logs, schematics, repair procedures, and safety procedures. Establishing this single source of truth enhances collaboration between project partners, subcontractors, and suppliers.</p>	<p>“Our goal is the efficient collection, connection, and delivery of relevant, timely, accurate, usable information to our consumers and relevant stakeholders, which is why we began our journey to implement a digital twin.”</p> <p>-Nathan Robertson Digital Engineering Analyst, Southern Company</p>

1. “Can a supply chain digital twin make you twice as agile?”,

EY, https://www.ey.com/en_us/advanced-manufacturing/can-a-supply-chain-digital-twin-make-you-twice-as-agile

To learn more, explore AVEVA's Asset Information Management,
please visit: aveva.com/en/products/asset-information-management/

