

The top of the page features a photograph of a woman with brown hair, wearing a dark blue jacket over a maroon shirt, standing in an industrial setting. She is looking at a laptop on a workbench. In the background, there are various pieces of industrial machinery and equipment. The AVEVA logo is overlaid in the top left corner of the image.

AVEVA

DATASHEET

AVEVA™ Enterprise Asset Management

Collaborative asset management for the enterprise

Through your HMI and SCADA systems, your organization has already experienced the impact that meaningful data has on your daily operations. Real-time information, displayed in context, means your personnel can easily identify abnormal conditions, focus their attention immediately on problems, and interact with your machinery from anywhere in the world.

Your assets are continually generating huge amounts of information, but how much of this data do you miss? How much do you not see, not interpret, and not use? By reading and responding to this data effectively, you can get much more out of what you already have. Asset Performance Management helps you streamline your processes, increase reliability, reduce downtime, and achieve asset performance excellence.

Product at a glance

- An enterprise level solution that accommodates multiple businesses or sites in a single solution
- Ensures labor, material, tools, drawings, subcontractor requirements and safety information can be identified on work orders to support proactive maintenance activities
- Preventive maintenance function helps users proactively manage and plan maintenance
- Helps minimize inventory costs, helps ensure spare part availability and provides extensive analysis capabilities
- Automates requisitions, purchase orders and quotations with contract and invoice matching
- Approval and workflow capabilities reduce administrative workload and provide enhanced flexibility
- The Industrial Rapid Implementation Methodology (InRIM™) ensures a risk-free implementation using field proven best practices

Introduction

Combining world class EAM capability with powerful condition monitoring and management capabilities can turn huge volumes of production data into actionable asset intelligence in real-time, enabling informed decision-making at every level of the production enterprise.

Maximize asset reliability and utilization

AVEVA has the products, services and domain expertise to meet your business requirements from the production line to the bottom line. The AVEVA Enterprise Asset Management suite enables your enterprise to do more than simply maintain assets.

It is designed to meet the sophisticated maintenance and materials management requirements of today's asset-centric organizations. Furthermore, it is fully and seamlessly integrated with distributed control systems on the plant floor; and it incorporates and responds to predictive condition monitoring processes.

The AVEVA Enterprise Asset Management suite provides the insight you need to make informed business decisions and manage all of your assets with confidence.

Access to decision support information

Every decision you make is dependent on the quality of information available to you. While most EAM offerings are capable of capturing vast amounts of data, users often find it difficult to access and interpret this data. The industry standard architecture transforms data into information you can use, quickly and easily, providing true asset intelligence. Remote, casual, executive and expert users are all empowered by the ability to access critical information across the enterprise, when and how they need to see it.

AVEVA Enterprise Asset Management

AVEVA Enterprise Asset Management is a comprehensive Solution that provides maintenance, procurement, and inventory management for asset intensive industries.

Entity management

AVEVA Enterprise Asset Management developed the entity concept to maximize the flexibility of a typical equipment database. It supports the management of both maintainable and organisational entities, as well as tracking capital projects and related tasks and expenditures. Maintainable assets include anything that needs to be repaired, such as a piece of equipment, assembly line, mobile asset or IT assets. Organizational entities refer to any arrangement of your enterprise that is used to collect cost, statistical, budget or backlog information such as a division, cost center or department. AVEVA Enterprise Asset Management allows “parent-child” relationships to be defined and built into multiple hierarchies for cost rollups and operating statistics.

Work management

Work management ensures that maintenance personnel can manage and plan incoming work requests as well as automatically generated work from preventive maintenance programs. The planning function ensures that labor, materials, tools, drawings and subcontractor requirements, as well as safety information, can be identified on work orders to support proactive maintenance activities. With AVEVA Enterprise Asset Management, plant floor personnel are empowered to enter, manage and view entity-related activities. In addition, integration with the inventory and procurement functions ensures material availability, improved productivity of maintenance staff, better communication of needed supplies and complete costing of all activities.

Preventive maintenance

The Preventive Maintenance (PM) function of AVEVA Enterprise Asset Management offers the ability to create a library of standard, repeatable jobs with automatic work order generation (based on any combination of user-defined triggering criteria: operating statistics, elapsed time, calendar date), inspection checklists and PM routes. The application is fully integrated to distributed control systems, such

as the AVEVA™ Simulation for Foxboro™ Control 4.0 or AVEVA™ System Platform 2020, formerly Wonderware application, to support the automated downloading of real-time operating statistics from the plant floor. The Preventive Maintenance function helps users manage maintenance in a proactive and planned manner, rather than treating maintenance as reactive or repair work.

Reliability analysis

AVEVA Enterprise Asset Management builds a detailed history of equipment information based on day to day maintenance activities. Failure history, including symptoms, the cause of failure and action taken can be easily reviewed and analyzed. In addition, indicators such as mean-time-between-failure and mean-time-to-repair reporting are available to determine proper fine-tuning of equipment maintenance requirements.

Responsive to operating conditions

Seamless integration with the plant floor enables AVEVA Enterprise Asset Management to take account of current operating conditions, and respond to warnings and alarms raised by monitoring systems in the production environment. Changing conditions that may impact the ability of production to deliver can be caught early, and dealt with through preventive and predictive maintenance routines that have much less impact on operations than unplanned emergency downtime.

MRO inventory

MRO Inventory addresses the main challenges of maintenance repair and operations, enabling the control of a large number of unique and low-unit value items. The system automates the reorder process by recognising calculated safety stock levels, replenishment lead times and sophisticated “available-to-promise” logic based on expected receipts (open purchase orders) and issues. The ability to establish multiple storerooms and locations, as well as flexible categorisation capabilities, and allows the user-defined grouping of items for searching, analysing and reporting purposes. The inventory module also provides the ability to uniquely identify and track repairable items and critical parts through serialization.

Procurement

The main objective of the procurement function in a maintenance environment is to minimize the cost of buying high volumes of MRO inventory items, and to ensure that parts are available when needed. AVEVA Enterprise Asset Management focuses on fully automating the entire procurement process, including requisitions, purchase orders, expediting, receiving, quotations and contract and invoice matching. Extensive analysis capabilities are available to streamline the procurement process and allow more time for the procurement professional to add value in contract negotiation and vendor relationship management.

Approval and EAM workflow

Approval routing relies on the same engine as the AVEVA Enterprise Asset Management cabinet functionality, thus providing the customer with unlimited flexibility on selection and routing rules. Approval routes are defined by the user, and can be based on both financial and functional rules. Approvals are electronically performed through an approval Inbox or via your standard email system, thus enabling off-line approvals to be performed at your convenience. Approved documents can be automatically processed to their next stage via workflow: for example, an approved requisition may be automatically ordered. The approval and workflow capabilities enable a considerable reduction in administrative workload over the long term, and provide enhanced flexibility to ensure auditable decision making.

Successful, proven implementations with InRIM

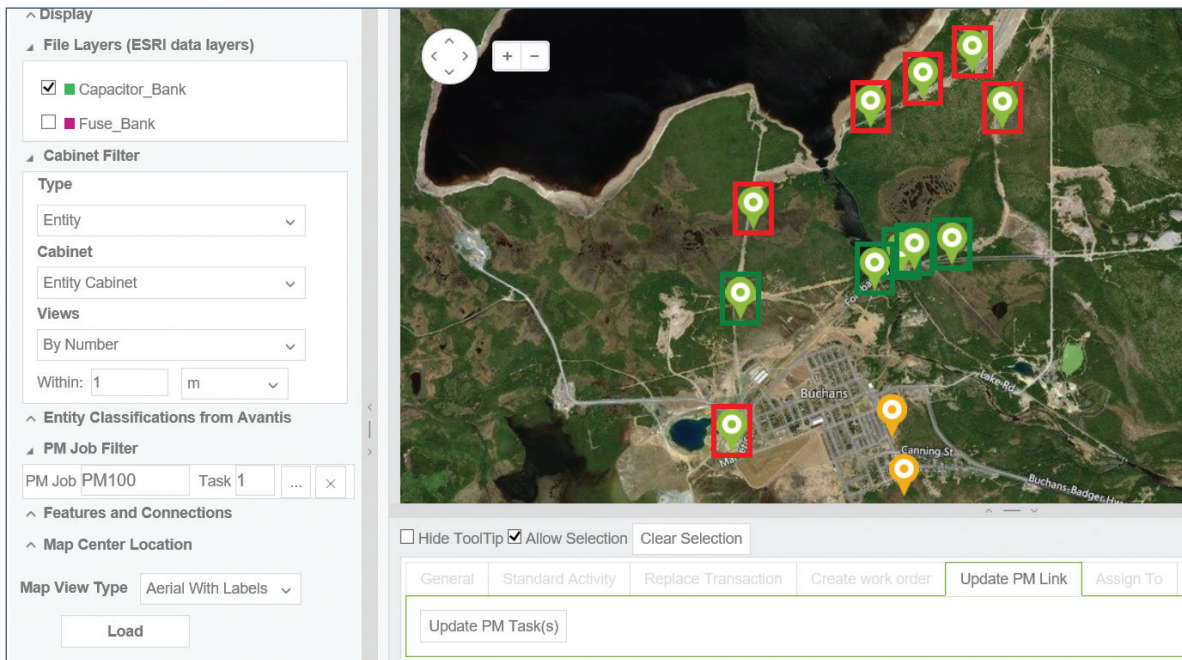
Our guaranteed implementation approach ensures that you can quickly utilize AVEVA Enterprise Asset Management offerings to maximize your return on assets and maintain your competitive edge. The Industrial Rapid Implementation Methodology (InRIM™) is a structured, multi-component methodology that ensures risk-free implementations without compromising the ongoing evolution and continued growth of its use. The InRIM approach is truly unique, in that it is based on industry standard best practices and offers a repeatable structure that can more predictably achieve your organizational objectives. InRIM and our systems methodologies will help you to put in place solutions to capitalise on your investment in developing a coherent asset strategy in line with ISO 55000.

Modern, empowering web based technology

AVEVA Enterprise Asset Management web based EAM software, built using HTML5 technology, makes it easier to use, implement, maintain and generally easier to produce results by empowering all users to do their work anywhere, using any device. Web-based software allows management and employees to stay connected with unprecedented ease-of-use and accessibility from any internet connected device.

The flexible Cabinet and Designer, Forms Designer and Dashboard features are completely customizable and simplified allowing for customers to personalise the user experience to meet their business needs.





Flexible cabinet and designer

- Design cabinets for user specific needs
- On the fly sorting, filtering and manipulating of data allows users to view work in a manner that is more meaningful
- Cabinet layouts can be saved for future use

Flexible forms designer

- Flexible way to design the user interface forms to be fit for purpose
- Security profiles can limit forms available to users (short form for general users, long form for planners)
- Field level security

Flexible management dashboards

- Design dashboards for snapshots of your equipment
- Highly flexible tool which enables all levels of the organization to view summary and detailed information in an intuitive, visual manner
- Dashboards are accessible inside or outside your firewall