Solutions for the entire asset life cycle

Capital engineering assets pass through distinct phases during their life cycle and AVEVA provides a comprehensive range of best-in-class products and solutions for each.

In this Highlights document, and on www.aveva.com, our products are classified to reflect these phases, making it easier to identify the most appropriate for your needs.

- **ENGINEER**
  These products are used to create and manage the engineering information that describes an asset

- **DESIGN**
  These products are used to translate engineering information into accurate and detailed 3D designs

- **MANAGE**
  These products enable the efficient management of projects and resources

- **BUILD**
  These products support the physical processes of production and construction

- **OPERATE**
  These products support the many complex activities involved in safe and efficient asset operation

For more information about all AVEVA products, please visit www.aveva.com/products
### AVEVA P&ID™

Automatically creates intelligent data as the P&ID is designed using AutoCAD.

**Key Features**
- Flexible configuration
- ISO 15926-compliant
- Easy-to-use catalogue editor
- Automation functions

**Benefits**
- Ensures design integrity
- Enables effective design reuse
- Easy to learn and use

**www.aveva.com/aveva_pid**

### AVEVA Diagrams™

For the easy creation of P&IDs, piping and HVAC diagrams that integrate with 3D design.

**Key Features**
- Can be used with or without piping specifications
- Supports multi-sheet drawings and configurable .DWG outputs
- Automatically creates items, lines and instruments in the project database
- Unique navigable view of database data
- Controllable release of data for 3D modelling

**Benefits**
- Enables completeness and consistency across the entire project
- AVEVA technology platform reduces system administration
- May be used with AVEVA Schematic 3D Integrator™, reducing design and checking effort

**www.aveva.com/aveva_diagrams**
**AVEVA Electrical™**

Electrical engineering, design, documentation and management.

**Key Features**
- Three integrated, stand-alone modules:
  - Electrical Engineer
  - Electrical Wiring Manager
  - Electrical Designer
- Graphical cabling design and management
- Data Compare & Update features

**Benefits**
- Easy to deploy, quick to learn, easy to use
- Easily configured to your working methods
- Integrates with 3D cable routing and ERM software
- Easily create and manage engineering data, drawings, cable schedules and Bills of Materials
- Comply with cable sizing standards
- Eliminate design errors early to avoid costly rework

www.aveva.com/aveva_electrical

**AVEVA Instrumentation™**

Instrumentation systems engineering, design, documentation and management.

**Key Features**
- Four integrated, stand-alone modules:
  - Instrument Engineer
  - Process Engineer
  - Instrument Designer
  - Wiring Manager
- Advanced graphical user interface
- Extensive use of design rules and catalogues

www.aveva.com/aveva_instrumentation
AVEVA Engineering™

Manage the evolving multi-discipline engineering data for tagged items such as lines and equipment.

Overview
AVEVA Engineering enables multi-disciplinary teams of engineers to jointly develop the definition of all the key engineering items (such as lines, equipment and valves) and their key attributes.

Benefits
- More effective management, control and exploitation of your data assets
- Increased design efficiency and quality
- Efficient and flexible multi-location, global working
- Reduced impact of changes on cost, schedule, quality and risk
- Enables new, more effective working practices

Key Features
- Controlled Object Revisioning
- Compare & Update utilities
- Automatic change recording and highlighting
- In-built information status control
- Inconsistencies can be detected across the engineering, 3D, schematic, instrumentation and electrical datasets
- Version-controlled datasheets can be created from predefined project templates
- ‘Round-trip’ information to external agencies
- Highly configurable and easy to use

www.aveva.com/aveva_engineering
**Overview**

AVEVA Everything3D (AVEVA E3D™) is AVEVA’s top-of-the-range, multi-discipline, 3D plant design solution. It combines the latest 3D graphics, laser scanning and user interface technologies with state-of-the-art data management to deliver the most comprehensive, productive and tightly integrated 3D design solution available.

**Benefits**

- Rapid project start-up
- Increased design efficiency
- Easier compliance
- Helps eliminate rework

**Key Features**

- Intuitive 3D graphics and user interface, making it easier to position objects accurately in the model
- Configurable design checking, access control and status functions
- Built-in support for multi-discipline, multi-user, concurrent collaboration
- Unrivalled integration of laser scanning, 3D modelling, 2D drafting, and engineering data

[www.aveva.com/aveva_e3d](http://www.aveva.com/aveva_e3d)
**AVEVA Bocad™**

A dedicated suite of products for the structural steel detailing and fabrication industry.

**Overview**

Powerful applications and add-ons for structural steel design, detailing and fabrication, for the plant, marine and AEC industries.

**Benefits**

- No limits to design capability
- Unrivalled detailing productivity
- Accurate fabrication
- Integrate with architectural, plant or marine design

**Key Features**

- Interoperability with design and analysis, architectural/plant/marine design, and with ERM, ERP, MRP and MIS systems
- Customisable template/macro language
- Parametric templates for design reuse
- Full clash-checking capabilities
- Digital welds, with steel prep, numbering, ID and reporting
- Built-in parts nesting and reporting
- 2D-3D association
- Automated shop-ready fabrication deliverables
- Built-in links for CNC machines and fabrication management systems
- Revision control, change highlighting and audit trail

**Products**

- **AVEVA Bocad Steel™**
  www.aveva.com/aveva_bocad_steel
- **AVEVA Bocad Tower™**
  www.aveva.com/aveva_bocad_tower
- **AVEVA Bocad Roof & Wall™**
  www.aveva.com/aveva_bocad_roof_and_wall
- **AVEVA Bocad NC™**
  www.aveva.com/aveva_bocad_nc
- **AVEVA Bocad Offshore™**
  www.aveva.com/aveva_bocad_offshore
- **AVEVA Bocad Onshore™**
  www.aveva.com/aveva_bocad_onshore

www.aveva.com/aveva_bocad
AVEVA Global™

The proven 24-hour multi-location design management system.

Overview
AVEVA Global is a proven solution for managing multi-site collaborative engineering projects of unlimited scale. It enables the rapid set-up and easy reconfiguration of fault-tolerant global resource networks for 24/7 project execution in both the plant and shipbuilding industries.

Benefits
- Allocate work to the most cost-effective/available locations
- Control access to project and design information
- Manage workflow and information status
- Efficiently execute large, complex projects
- Work concurrently with other offices, subcontractors, vendors and partners
- Use capacity wherever and whenever it exists

Key Features
- Easy to set up
- Flexible
- Robust communications
- Less administration
- Secure control of data
- Robust database protection
- Safe off-line working

www.aveva.com/aveva_global
**AVEVA NET Workhub and Dashboard™**

Information Management software for visualising, validating and linking all types of data and documents.

**Overview**
AVEVA NET Workhub and Dashboard provides a fast and efficient Information Management system for engineering and operations. It provides users with complete control of their project and asset information throughout the entire asset life cycle.

**Benefits**
- Better-informed decision making
- Improved information standardisation
- Effective search, navigation and visualisation of project and asset information
- More efficient and effective information access
- The ability to enhance data quality and integrity
- Reduced software licensing costs

**Key Features**
- Clean, modern and efficient user interface
- Summary views and pop-up content cards
- HTML5 document viewing
- AVEVA 3D streaming technology for enhanced visualisation

[www.aveva.com/aveva_net_workhub_and_dashboard](http://www.aveva.com/aveva_net_workhub_and_dashboard)
Rationalise class libraries and impose consistent and compliant information standards for more efficient business processes.

Overview

AVEVA Information Standards Manager (AVEVA ISM™) enables more efficient business processes without the costs and risks entailed in replacing numerous individual authoring applications.

Benefits

- Achieve compliance with contractual information standards requirements
- Reduce errors, delays and project overruns
- Access multiple customer class libraries in a single repository
- Improve data quality at handover, streamlining the process
- Assurance and demonstration of regulatory compliance

Key Features

- Class library management
- Data validation and maturity rules
- Export information to XML, Excel or AVEVA NET Workhub
- Simple and advanced search, supporting regular expressions

www.aveva.com/aveva_information_standards_manager
AVEVA NET Player™

Add the time dimension to AVEVA NET Dashboard for 4D construction visualisation.

Overview
AVEVA NET Player is a powerful add-on to AVEVA NET Dashboard, providing timeline-based 4D visualisation of project construction sequences. It is a key element of AVEVA's Construction Management solution.

Benefits
FOR EPCS
- More effective multi-site collaboration
- Increased project management control
- Reduced construction errors, delays and rework
- Shorter project planning timescales
- Reduced technical, commercial and safety risk

FOR OWNER OPERATORS
- Improved visibility and monitoring of project progress
- Reduced risk of handover delays
- Earlier first revenues
- Increased efficiency in planning major modifications and revamps

Key Features
- Powerful visualisation:
  Simulate and review construction sequences and criteria using interactive 3D model views
- Versatile:
  Display object status information for procurement, commissioning, risk-based inspection, and so on

www.aveva.com/aveva_net_player
AVEVA WorkMate™

Enterprise Asset Management (EAM) in one integrated, modular solution.

Overview
AVEVA WorkMate enables owners and operators in asset-intensive industries to maintain and operate assets through the entire life cycle.

Benefits
- Reduced costs
- Increased safety
- Maximum productivity
- More flexibility
- Easier fleet management

Key Features

Technical Information module
- Direct access to tags and all types of related information
- Easily navigated asset hierarchies, equipment master lists and resource catalogues

Maintenance module
- Planning of inspections and maintenance activities
- Flexible rescheduling to avoid conflicts
- Integration with procurement and materials management

Procurement module
- Requisitioning
- Direct issuing of RFQs
- Flexible Purchase Order processing

Materials Management module
- Complete inventory status
- Receipt of goods and services
- ‘Smart’ stock issuing

www.aveva.com/aveva_workmate
AVEVA Activity Visualisation Platform™

Immersive training and simulation environments to improve safety, decrease training costs and reduce operational risk.

Overview
AVEVA Activity Visualisation Platform (AVEVA AVP™) is the most effective tool for facility familiarisation, training, operations or maintenance planning, or the planning and simulation of safety-critical activities, without putting either your personnel or the plant itself at risk.

Benefits
- Helps EPCs create realistic, immersive simulations of plant designs for bid support and marketing
- Optimise designs for operational safety and efficiency
- Supports remote planning and preparation of plant walk-downs prior to certification
- Increase operational safety and efficiency through risk-free staff training, familiarisation and rehearsal of scenarios

Key Features
- Realistic 3D virtual worlds can be created directly from AVEVA and third-party design data
- Navigate and interact with the virtual environment through a direct, first-person viewpoint, or via controllable avatars
- The in-application browser provides real-time or simulated data from any web-enabled data source
- Realistic motion and control of complex machines and other objects are easily achieved

www.aveva.com/aveva_avp
The AVEVA Digital Asset approach – supporting the entire asset life cycle

AVEVA's expertise lies in the quality and innovation of our software and services, as well as our knowledge of the industries we serve. Our nearly 50 years of experience enables us to create effective strategies that define an overall approach to deploying complex solutions across multiple phases of the Digital Asset life cycle.

The CAPEX Phase
INTEGRATED PROJECT EXECUTION FOR EPCS

The Integrated Project Execution (IPE) strategy employs best practice standards to improve on-schedule completion and the quality of deliverables. This information-centric Digital Asset approach is helping EPCs to improve their competitiveness and profitability.

The OPEX Phase
OPERATIONS INTEGRITY MANAGEMENT FOR OWNER OPERATORS

At the centre of an Operations Integrity Management (OIM) strategy is the Digital Asset, connecting capabilities and processes to enhance operational reliability. AVEVA's OIM strategy ensures that the right information is always available to Owner Operators to support the countless decisions made throughout the life cycle of their assets.

www.aveva.com/digitalasset
About AVEVA

The leading engineering software provider to the world’s process plant, power and marine industries.

Our industries
AVEVA’s technologies are the choice of all the capital engineering industries, including:
- Oil & Gas
- Power
- Chemical
- Marine
- Mining & Minerals
- Pulp & Paper

Our technology
OBJECT-CENTRIC TECHNOLOGY uses ‘objects’ to represent real-world elements, such as valves, pumps or pipes.

KEY BENEFITS
- Protects design investment
- Improved project life cycle management
- Efficient information sharing and use
- Better project control

INFORMATION-CENTRIC SOLUTIONS integrate all types of information into a single, dependable Digital Asset.

KEY BENEFITS
- Higher, consistent project quality
- More efficient working
- Reduced project/operational risks
- Reduced costs

Our vision
Always the leading innovator and our customers’ most trusted partner.

Our company
AVEVA is a global company with a network of sales, support and technology development centres in over 30 countries, providing close support to our customer community.

Our community
We support our global customer community with dedicated events, from local User Group Meetings, to our annual AVEVA World Summit, a forum for senior professionals to meet and exchange experiences and insights.
Headquartered in Cambridge, England, AVEVA Group plc and its operating subsidiaries currently employ staff worldwide in Australia, Austria, Brazil, Canada, China, Columbia, Denmark, France, Germany, Hong Kong, Hungary, India, Italy, Japan, Malaysia, Mexico, Norway, Russia, Saudi Arabia, Singapore, Spain, Sweden, South Korea, United Arab Emirates, United Kingdom and the United States of America. AVEVA also has representatives in additional countries around the world.

For more details on AVEVA Worldwide Offices, visit www.aveva.com/offices