AVEVA **Information Standards Manager**

Achieve consistent and compliant engineering information across project or enterprise

Information is the lifeblood of both project execution and asset management. Its quality and consistency are essential to every application and business process, particularly as these become ever more closely integrated and share a common information asset.

In practice, however, businesses make use of a variety of different applications that not only use the same items of information in different ways, but also employ different standards when referring to them. This can result in incorrect, inconsistent or missing information being handed over from project execution to operations, impairing decision making and productivity as users waste time searching for and verifying information, or carrying out costly rework. Whether through accruing relatively minor delays and unnecessary costs, through impaired asset performance or the worst-case scenario of hidden safety hazards, the absence of robust information standards affects the entire enterprise.

AVEVA Information Standards Manager™ (AVEVA ISM™) overcomes this inherent inconsistency by rationalising existing class libraries and imposing consistent and compliant standards for information to conform to. It enables more efficient business processes without the costs and risks entailed in replacing numerous individual authoring applications.
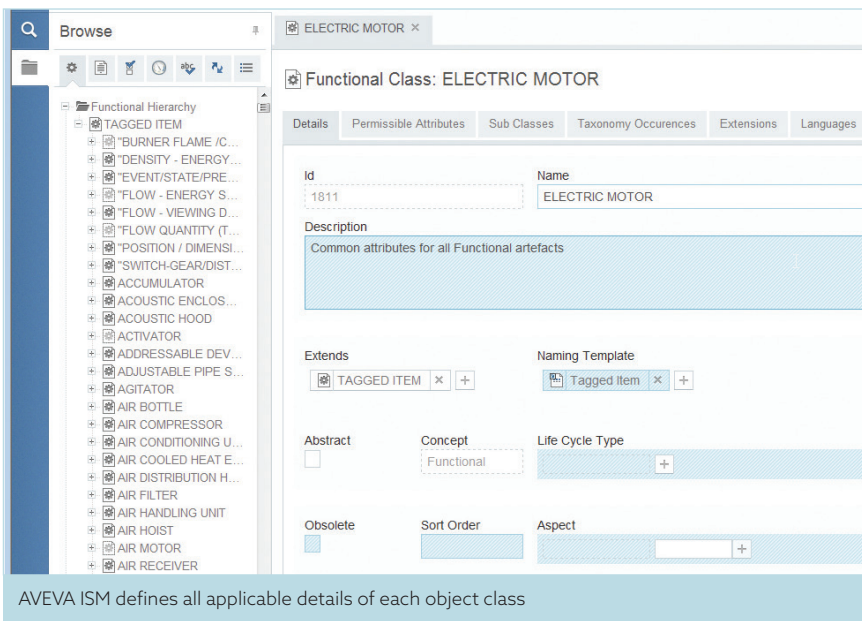

AVEVA ISM defines all applicable details of each object class

Business Benefits

For EPCs
- Achieve audit compliance with contractual information standards requirements
- Reduce errors, delays and project overruns resulting from delays in finding accurate information
- Access multiple customer class libraries in a single repository
- Easily apply and verify the use of customer- or project-specific information standards
- Collaborate more easily with project partners, subcontractors and suppliers

For Owner Operators
- Clear definition, control and communication of mandated information standards
- Improved data quality at handover, streamlining the process
- Safer operations through improved data quality
- Assurance and demonstration of regulatory compliance

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AVEVA™

Overview

AVEVA Information Standards Manager is a web-based, stand-alone application that can:

- create and edit class libraries in its own database
- review and compare class libraries created and held in third-party databases and applications
- provide files of class library data that can be used to modify and reconcile information held in multiple applications
- separate the concerns of business requirements from software requirements and have them governed by different roles and responsibilities.
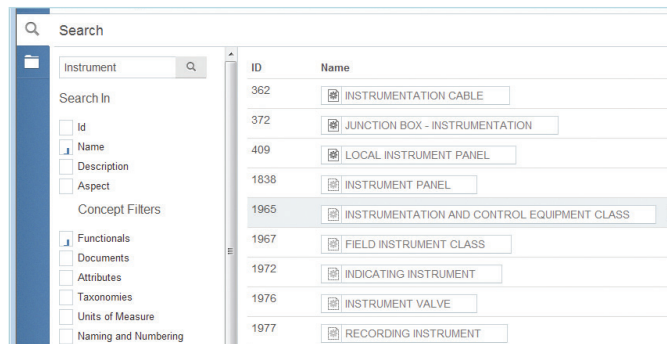
The product consists of an editor module and a viewer module.
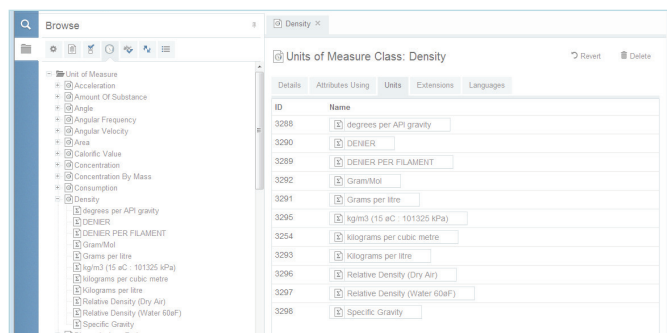
Editor module
This enables users to upload, visualise, navigate and understand an information standards definition, and to fully edit, update and store the information standards. It provides automatic checking of information standards consistency and creates a detailed audit trail of changes that have been applied to the information standards.

Viewer module
This base-level module enables users to upload, visualise, navigate and understand an information standards definition. The definition is not stored when the session ends and no editing capability is provided.

AVEVA ISM supports simple and advanced search, using regular expressions

Any required Unit of Measurement can be defined within AVEVA ISM

Key Features

Principal functions of AVEVA Information Standards Manager

- Metadata definitions, including:
  - Functional, document and attribute classes that form the foundation of the 'Digital Asset'
  - Class hierarchies, providing inheritance of properties and behaviours; this enables a normalised model to be defined without redundancies or discrepancies
  - Breakdown structures to provide multiple views of the plant information model to meet the needs of multi-discipline teams
  - Units of Measurement, eliminating a common source of inconsistency leading to costly operational errors
  - Naming templates for tags and documents
  - Definition of expected or required relationships between objects
  - Rich extensibility, enabling any definition to be extended with custom properties

- Class library management, including:
  - Importing class library models from external sources
  - Aggregating multiple class libraries into a single information standard
  - Consolidation of corporate, regional and asset- or project-level standards

- Data consistency rules, including:
  - Defining validation requirements of objects and individual attributes
  - Defining maturity rules, to better understand how data requirements are changing during an object's life cycle

- Information export, including:
  - Exporting an entire or partial information standard
  - Exporting in XML, Excel or to AVEVA NET Workhub™

- Immediate visualisation of any changes to the class library

- Simple and advanced search, supporting regular expressions

Non-disruptive deployment and use
AVEVA Information Standards Manager works with existing information sources and authoring applications to make their information available in a standardised form to all business processes. This avoids the cost and risk of replacing existing, stable applications when trying to rationalise information at source. It enables business process efficiency improvements to be implemented without being hampered by the different limitations of the various authoring systems in use.

AVEVA™