

LIBRARY

ENOVIA Library Central



ENOVIA® Library Central™ enables companies to define product content libraries to improve reuse throughout product development. Because of minimal effort involved, the library's definition can adapt quickly and easily to rapidly changing business needs.

Key Benefits

- Create multiple library classification systems to fit your company's business needs, functional roles and/or products
- Apply standard attributes to the library taxonomy for robust parametric searches and comparisons of classified data based on different usage models
- Classify existing product content from other ENOVIA products or create new product documents with robust document management capabilities
- Search libraries based on all parameters associated to its classes
- Associate units of measure to numeric attributes to enable conversions when searching and displaying library data
- Control security access rights to library classification structures to ensure proper access to IP

Product Overview

In most industries today, the complexity and rate at which new products need to be developed has already out-paced the rate at which many companies can produce them. Furthermore, the rate at which companies need to develop product content is expected to continue to grow faster than the current rate that they are improving their productivity.

Studies have shown that effective management of product content through enabling reuse can cut up to 70% off of design time (source: "Reuse Impact on Time-to-Market," University of Tennessee). A key enabler of this savings is the infrastructure required to catalog, find, and manage the reusable data. An inefficient product content reuse system will diminish any potential savings that may be gained. Moreover, a system that does not fit the company's business and data or is difficult to use, will not be effective even if it is implemented and the time spent creating data the system will be lost.

ENOVIA Library Central addresses a number of key business challenges when deploying a product content reuse system:

- Accelerated product development and shortened time-to-market via reuse of design components and product documentation
- Increased reliability, higher quality and lowered cost through the reuse of previously validated product content
- Improved collaboration by enabling users across the enterprise to find and add their own product content

The application allows different libraries to have different classification systems and even enables multiple role-based taxonomies to be used to organize the same common product data. This allows all users to contribute easily to overall product content by using libraries tailored for their specific domain and/or job function.

ENOVIA Library Central provides simple and efficient search and navigation capabilities. Whether using the hierarchical tree-browser or the powerful parametric search capabilities, it is quick and easy for users to search library repositories thoroughly to find the best available match for their criteria. This in turn maximizes the reuse achieved and the savings returned on the investment in the company's intellectual property (IP).

Product Highlights

ENOVIA Library Central enables companies to create and manage catalogs of product development data and leverage the investment previously made in its IP. Key features and capabilities include:

Enterprise-Wide Product Content Catalogs

Librarians can define multiple library classification approaches to fit the company's business needs, functional roles and/or products. These libraries are accessible to all users in the company to help promote sharing and re-use of product content. A library classification hierarchy can be tailored in a live system without having to change the underlying database schema. Therefore, the librarians can manage the libraries and their taxonomies themselves rather than going through an expensive modification of the entire Product Lifecycle Management (PLM) system and expending IT resources.

Role-Based Library Classifications

Multiple classification taxonomies can be defined that simultaneously organize the same content from the perspective of different roles. Each role can view the product data through its own library, with its own classifications. Each library has its own attributes that are inherited based on where the object is classified in the taxonomy, and can be browsed and searched within its role-specific definitions. This makes it easy for each role to find data from his/her own context while accessing the data from a single common database, ensuring a single version of the truth.

Parametric Searches and Comparisons

ENOVIA Library Central allows librarians to define reusable sets of attribute definitions that can be applied throughout the classification hierarchy and assigned automatically to content as it is classified. The attributes have formal meaning to the taxonomy and can be inherited from class to subclass, which reduces the effort to create and maintain the classification system. The definition of classified product content is extended with unique parametric data focused on the usage model of the library's intended users. As a result, users throughout the company can access the same product content based on the needs unique to their jobs. The powerful, yet simple to use, search capabilities makes it easy to locate product content based on complex sets of reuse criteria. Users can constrain their searches to a specific branch of the library/class/subclass hierarchy. In addition, attributes associated with a given class allow the user to define criteria appropriate to their context. Users can search across different units of measure as ENOVIA Library Central automatically compares the specified search criteria against the database, regardless of how the parameters were captured originally. An advanced comparison tool further analyzes search results to identify differences for ranking alternatives. The simplicity of the search tools encourage end users to look for the best available content always, instead of settling for the first adequate one encountered.

Library Security

A flexible access control mechanism allows librarians to determine which users and/or roles have access to the library classification structures. Only specified users are able to view and navigate the libraries, the library structures and its content. In addition, limited access can be granted to allow users navigation access, but not download access to the classified content or IP. Subsequently, users can then request additional download access from the librarian to the given IP and be granted temporary time-based access if the request is approved.

IP Management

ENOVIA Library Central allows users to classify existing parts or documents created from other ENOVIA products. In addition, a user can create a new part or document of any type and immediately classify it in the library. When new IP is added to a class, it inherits additional attributes to extend its definition to support the parametric search capability.

Document Retention Record

Retention schedules serve as a company's legal authority to retain and purge records. Businesses minimize legal liabilities by ensuring that records are kept for only as long as they are useful, needed, and consistent with corporate policies. With ENOVIA Library Central, authorized roles can establish timelines to purge records/documents scheduled for destruction. Documents are attached to "Record Retention Schedules" where the retention period is captured and the retention date is calculated based on key events and schedule state changes. As the retention date expires, documents are flagged for destruction. "Record Hold Schedules" can be established to prevent documents from being purged until the "hold" status is released.

Electronic Review Processes

The system can be set up to enforce cross-functional reviews of library content before accessed by a broader group of end users. Routes are used to circulate the content to select individuals for review and approval. Route creation and setup can be simplified by the use of templates, which pre-define the steps that must be followed. The review process complies with U.S. Food and Drug Administration's (FDA's) 21 Code of Regulations (CFR) Part 11 for recording electronic signatures. Whether you need to comply with FDA regulations or not, your company can benefit from capabilities such as password verifications, password aging, password format checks, failed attempts logging and requiring two administrators to alter a user's password.

Notification of Changes

Users can subscribe to automatic notifications for key events such as new content being added to the library or changes made to classified items. Subscriptions can be attached to entire libraries or to individual components. Notification comes in the form of automatically generated email and can include attached descriptions and links to the relevant library or components for easy navigation. Users making use of data from the library can make decisions based on up-to-the-minute status of issues and updates, rather than static knowledge captured at the time of reuse.

Usage Tracking

ENOVIA Library Central can optionally track usage information for documents that are accessed through the classification structures. As users access IP, they are prompted to fill out usage information that describes the purpose of the download. Using built-in reports, librarians can track how IP is being used throughout the enterprise. Librarians can also define library taxonomies for royalty management and contract obligations specific to legal and business requirements. Contracts and other relevant legal documents are linked directly to the reuse data within ENOVIA. This enables component usage to be tracked automatically so that payments are correctly made and reports are generated to ensure compliance is maintained.

The Role of ENOVIA V6 and PLM 2.0

ENOVIA Library Central supports PLM 2.0, product lifecycle management online for everyone, and the ENOVIA V6 values: global collaboration innovation, single PLM platform for intellectual property (IP) management, online creation and collaboration, ready to use PLM business processes, and lower cost of ownership.



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