

COLLABORATIVE

ENOVIA Collaborative Design for CATIA V4



ENOVIA® Collaborative Design for CATIA® V4 provides a multi-site CATIA V4 design data management solution for the extended enterprise. It allows designers to access and share each other's designs from within the native CATIA V4 user interface by leveraging the design team collaboration capabilities of ENOVIA® Designer Central™.

Key Benefits

- Maintain accurate representations of the intended design in the ENOVIA database
- Achieve centralized management of all CAD files
- Control work-in-process, engineering changes, data, documents, and dynamic configurations
- Give non-engineering personnel direct, task-specific access to current CAD data
- Reduce the possibility of redundant, inaccurate, or out-of-date product information
- Increase information sharing while protecting intellectual property from unauthorized access
- Achieve ISO compliance
- Improve design control and business process management to realize truly functional product development and delivery

Product Overview

ENOVIA Collaborative Design for CATIA V4 allows designers to effortlessly access, manage, share, and store CATIA V4 data without leaving their preferred environment. As a connector to ENOVIA product data management capabilities, the ENOVIA Collaborative Design for CATIA V4 product facilitates workflow, increases data integrity, and improves configuration management. From CATIA V4, users can search and browse the ENOVIA system, and lock and checkout design or drawings to their local drives. After modification, users can upload changes to ENOVIA.

Product Highlights

ENOVIA Collaborative Design for CATIA V4 connects the CATIA V4 application and ENOVIA® Designer Central™. It provides the CAD user with a rich set of design data management tools accessible from within the Computer Aided Design (CAD) application. ENOVIA Collaborative Design for CATIA V4 organizes the native types of parts, assemblies, attributes, etc. in CATIA V4 and maps those entities to associated items in ENOVIA that the entire corporation will understand.

Product Structure Data Integrity

ENOVIA Collaborative Design for CATIA V4 requires the business process logic of ENOVIA Designer Central. The combination of ENOVIA Collaborative Design for CATIA V4 and ENOVIA Designer Central provide a powerful solution in maintaining the integrity and timelines of CATIA V4 data in the Product Lifecycle Management (PLM) system.

ENOVIA Collaborative Design for CATIA V4 controls the relationships between CATIA V4 entities and how they are presented in the database. When a drawing is created it becomes the parent by the very nature of the internal reference to the part. Another example is when a structure is being checked out for loading in the CAD application. ENOVIA Collaborative Design for CATIA V4 controls what must be checked out for proper assembly in the CAD application while ENOVIA Designer Central capabilities provide the user interface and business process accesses for the operation to be performed.

Additional checks and balances such as attribute synchronization between the CAD designs and the objects stored in the ENOVIA database, access status of the design, etc., of the data being utilized by ENOVIA Collaborative Design for CATIA V4 users and the business processes provided by ENOVIA Designer Central are integral to the solution. ENOVIA Collaborative Design for CATIA V4 provides the correctly assembled data to ENOVIA® Designer Central for business process control.

Product Structure Maintenance

ENOVIA Collaborative Design for CATIA V4 represents and maintains accurate, complex product structures throughout the product's lifecycle. The product maps and maintains relationships among assemblies, parts, and other application-specific items as users checkin and checkout items, or users browse the ENOVIA Designer Central vault contents. In addition ENOVIA Designer Central can store previous configurations to permit baselines and rollbacks. This also allows for virtual structure management through direct access to previous revisions/version combinations stored in the database.

Product Driven Designs

Using ENOVIA Collaborative Design for CATIA V4 and ENOVIA® Engineering Central™ automatically synchronizes a CAD design structure to an Engineering Bill-of-Material (EBOM). This link is critical to the correct representation of the intended design. "Start Design Templates" associate engineering parts during design checkin and creation. The CAD design is available immediately to the engineering community as a specification to the engineering part. Engineers may view a graphical representation of the associated specification.

Revision Control

Organizations can maintain multiple revision trees of designs within ENOVIA Designer Central without manually creating new subdirectories or changing filenames. When ENOVIA Collaborative Design for CATIA V4 users create a new revision, ENOVIA Designer Central automatically saves it as a new business object, adds the sequential revision code to the item name, and relates it to the previous release. There is no need to propagate name changes interactively in the CAD application across files that reference the revised item.

Design Team Collaboration

ENOVIA Collaborative Design for CATIA V4 provides the critical connection between the CAD process and effective product development. By uniting the management power of ENOVIA Designer Central with the design and engineering power of ENOVIA Collaborative Design for CATIA V4, users are provided real-world control of the work-in-progress product design environment. ENOVIA Collaborative Design for CATIA V4 benefits from the following collaboration features in ENOVIA Designer Central:

- Design data workspaces
- Notification of design modifications of interest
- Online collaboration meetings
- Web based design visualization without native CAD tool

The Role of ENOVIA V6 and PLM 2.0

ENOVIA Collaborative Design for CATIA V4 supports PLM 2.0, product lifecycle management online for everyone, and the ENOVIA V6 values: global collaborative innovation, single PLM platform for intellectual property (IP) management, online creation and collaboration, ready to use PLM business processes, and lower cost of ownership.



Delivering Best-in-Class Products



Virtual Product



Information Intelligence



3D Design



Virtual Planet



Realistic Simulation



Dashboard Intelligence



Digital Manufacturing



Social Innovation



Collaborative Innovation



3D Communication

Dassault Systèmes, the **3DEXPERIENCE** Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 150,000 customers of all sizes, in all industries, in more than 80 countries. For more information, visit www.3ds.com.

Europe/Middle East/Africa

Dassault Systèmes
10, rue Marcel Dassault
CS 40501
78946 Vélizy-Villacoublay Cedex
France

Asia-Pacific

Dassault Systèmes
Pier City Shibaura Bldg 10F
3-18-1 Kaigan, Minato-Ku
Tokyo 108-002
Japan

Americas

Dassault Systèmes
175 Wyman Street
Waltham, Massachusetts
02451-1223
USA

Visit us at
3DS.COM/ENOVIA

