

TEAM

ENOVIA VPM Team Central



ENOVIA® VPM Team Central™ provides design teams and departments with a single Product Lifecycle Management (PLM) environment to efficiently manage, review and reuse V6 work-in-process product information.

Key Benefits

- Manage all products' IP within the entire development lifecycle
- Leverage experts' know-how to accelerate alternatives evaluation and enable knowledgeable decision
- Allow concurrent definition to reduce design to manufacturing lead time and fosters search for best design alternatives
- Harness collective intelligence to produce better products, quicker
- Align engineering work-in-process and enterprise business processes to improve communication for faster results

Product Overview

Integrated and built on the common data management architecture with the V6 authoring applications (CATIA®, DELMIA®, and SIMULIA®). ENOVIA VPM Team Central enables engineering teams to take more innovative products to market faster by providing collaborative virtual product management (VPM) of product, process and resource information—from marketing and design to manufacturing and maintenance.

ENOVIA VPM Team Central provides companies with a predefined environment to manage design, manufacturing, and simulation data. Its technology enables design reuse through a standard part catalog and provides review and validation tools. ENOVIA VPM Team Central can be used to exchange information with partners, and it can access V4 or V5 data that is managed with ENOVIA® SmarTeam™ or simply stored in basic file directories (folders).

Product Highlights

Key features and capability of ENOVIA VPM Team Central include:

Predefined Environment

ENOVIA VPM Team Central provides customers with a predefined environment allowing a rapid start with limited time spent on customization. This predefined called Rapid Application Configured Environment (RACE-) setup provides a completely integrated environment to support ENOVIA, CATIA, DELMIA and SIMULIA users and applications.

The standard ENOVIA® Team Central™ solution is supposed to fit most customer needs, but in some cases, fine tuning with the “parameterization console” may be required. The parameterization console enables a limited set of administrative operations to:

- Restrict the predefined lifecycle transitions depending on role and data type
- Extend data access to some roles
- Define the server site name for unique data identification when exchanging data with other sites

Enable Multi-Discipline Engineering Collaboration

ENOVIA VPM Team Central manages all V6 authoring data in one unique environment and one single database, promoting collaboration across different teams and disciplines (design, manufacturing, simulation). The product provides users with access to a set of data management tools (versioning, maturity, lock / unlock, etc.). ENOVIA VPM Team Central automatically determines assembly components that are out-of-date, delivering the right context quickly for accurate and fast updates. ENOVIA VPM Team Central synchronizes the engineering product structure with the enterprise Engineering Bill of Materials (EBOM) managed in ENOVIA® Team BOM Editor. As a result, a consistent and updated view is always maintained, allowing accurate execution of downstream processes.

Access Design Components Catalog for Quick Reuse

Users can create and reuse catalogs of any objects and disciplines. Catalog creators can add keywords enabling users to find and retrieve information quickly. This promotes part reuse and then cost optimization.

Perform Digital Review

ENOVIA VPM Team Central provides 3D digital review tools with annotations, markup, etc. so users can collaborate more efficiently, share ideas and make decisions.

Migrate Data From Legacy Dassault Systèmes PLM Systems

Using ENOVIA VPM Central, customers can import and export CATIA® V4 and V5 files as well as ENOVIA® VPM® V4 and ENOVIA® Designer Central™ data and metadata into V6 so existing IP is protected and efficiently leveraged.

Access to EBOM data from VPM

Using ENOVIA VPM Team Central, customers can access EBOM data from the “Search” and “Explore” windows while respecting the VPM security context. EBOM part properties can be browsed directly from the associated CATIA product properties.

Tailor the Data Model and Business Process

ENOVIA VPM Team Central comes with data attributes, access settings, and business processes to address the needs of a typical customer. However, since no two companies are alike, an easy-to-use administrative console can be used with settings to do the following:

- Adjust access rights (read/write) on data that can be modified
- Data naming can be customized (standard prefixes, version naming, etc.)
- Lifecycle transition conditions can be configured with preset options
- Add more attributes to object types to capture company-specific information

Administrative Resources of CATIA Applications and Business Logic Rules

Design experts can use the “Project Resource Management” workbench to associate resources to design projects in order to tailor how the CATIA designers’ work is done to meet company standards. Resources like PLM Templates, PLM Rule Sets, PLM Documents, Catalogs and Chapters can be accessed easily and quickly by designers based on their currently worked on project.

Manage Transition to V6 for Existing CATIA V4/V5 Customers

Designers using CATIA V6 and CATIA® V4/V5 (unmanaged in file directories managed with ENOVIA SmarTeam) can exchange design data to modify their design, and eventually update the whole product design accordingly. In addition to design collaboration scenarios, ENOVIA VPM TEAM Central also enables CATIA V4 and CATIA V5 users to share design data with downstream PLM processes such as manufacturing, simulation, and design review in a V6 environment.

Stereoscopic Viewing

ENOVIA VPM Central users benefit from stereoscopic viewing to deliver the most realistic visual representation possible of complex digital models, giving engineers, architects and scientists the best possible understanding of three-dimensional information, and yielding levels of technical proficiency not possible using a regular 3D viewer. Stereoscopic viewing is delivered into two different ways:

- High-end realistic visual representation needs specific stereoscopic equipment with quad buffer OpenGL compatibility like the popular Nvidia 3D Vision technology, or 3D TV
- Entry-range realistic visual representation can be used by anybody with only a pair of “blue/red” paper glasses

Support a Single CAD Structure of CATIA V6 and CATIA V5

CATIA V5 data that is managed in V6 with ENOVIA® Designer Central™ can be searched and navigated seamlessly in read-only mode directly in ENOVIA VPM Central. As a result, all VPM supported capabilities such as comprehensive review, process planning and EBOM synchronization are possible regardless of the native authoring tool.

Extend Capabilities With Dedicated Virtual Product Management Add-ons

- ENOVIA® Live Validation enables engineering managers, project leaders, and designers to oversee and participate in collaborative digital mockup reviews, packaging, and pre-assembly analyses within ENOVIA® 3DLive™ and CATIA V6
- ENOVIA® Team BOM Editor enables CATIA users to manage, manipulate, track and collaborate on product structures and EBOMs throughout the product lifecycle – from a Part and EBOM-centric approach, thus eliminating Part redundancy, minimizing errors, and expediting processes
- ENOVIA® VPM Interference Check helps companies increase product design quality by enabling designers to detect product interferences and correct errors earlier in the product development process
- ENOVIA® VPM Volume Computation provides the ability to create alternate representations of products or assemblies for size reduction or for specific contexts
- ENOVIA® VPM Supply Chain Collaborative Engineering enables OEMs and suppliers to share ENOVIA VPM Team Central managed product structure information
- ENOVIA® VPM Configured STEP Interface imports large STEP files into V6
- ENOVIA® VPM Interference Check helps companies increase product design quality by enabling designers to detect product interferences and correct errors earlier in the product development process
- ENOVIA® VPM On-The-Go (VND) allows mobile CATIA users to work remotely without network access while protecting IP and maintaining project data integrity.
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The Role of ENOVIA V6 and PLM 2.0

ENOVIA VPM Team Central supports PLM 2.0, supports PLM 2.0, product lifecycle management online for everyone, and the ENOVIA V6 values, which are:

- Global collaborative innovation
- Single PLM platform for intellectual property (IP) management
- Online creation and collaboration
- Ready to use PLM business processes
- 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.

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