



ENOVIA V5 DMU for 3D Master Support

Highlights

- » Provides 3D master product definition for engineering teams
- » Improves speed and accuracy of communication and decision making
- » Helps value chains converge quicker on product designs
- » Eliminates 2D-3D mismatch errors while improving 3D definition quality
- » Leverages unified access to a virtual, heterogeneous data environment
- » Native integration within CATIA, ENOVIA and DELMIA

Leveraging 3D Rich Information Beyond the Design Office

Today's manufacturers have never been under more pressure. Global demand and breakthrough technologies are increasing the complexity of product designs and the supply chains needed to build them. These distributed organizations need a way for stakeholders to view, understand and evaluate a virtual product definition — anytime, anywhere, in any format.

Drive more engineering information across the development enterprise

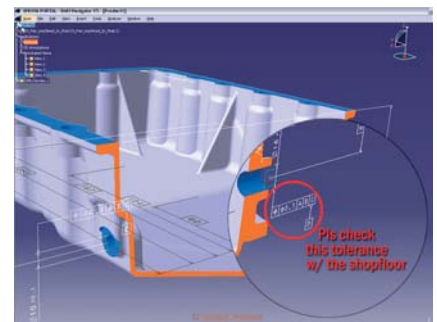
While 3D CAD has become the “gold standard” for product design today, many organizations still use 2D drawings as the product reference for critical downstream processes such as production planning. However, the limitations of 2D can result in misinterpretation of the design intent. In addition, the random exchange of paper-based information among departments and supply chains is a major source of errors and bottlenecks. Though 2D drawings present serious problems, 3D design is only part of the solution.

The proliferation of 3D CAD systems is making it difficult to share and analyze product information such as tolerances and materials in a single view, preventing consideration of critical factors and interactions needed to solve issues and manage change. This not only

impacts cost and quality goals, it impedes the flow of product information to key functions like manufacturing, planning, marketing and purchasing. To drive functional elements and design intent across the enterprise, it has never been more important to leverage the rich information embedded in 3D models.

Leverage the virtual 3D product definition from concept to retirement

Digital Mock-up (DMU) is an essential element of a successful Product Lifecycle Management (PLM) strategy. Within a unified PLM environment, DMU lets engineering teams review, manipulate and evaluate digital representations of 3D product information. By making it easy to share a “master” product



V5 DMU allows you to view the functional tolerances and annotations (FT&A) around the 3D model.

definition across the product lifecycle, DMU promotes the open, collaborative exchange of ideas to all stakeholders — from designers to suppliers to non-CAD contributors.

Visualize, analyze, and optimize 3D processes and products

V5 DMU for 3D Master Support provides:

- Complete access to technical information defined within V5, such as dimensions, constraints, geometrical and functional annotations, materials
- Seamless, primary mock-up analysis including sectioning, measure, markup
- Rich 3D content for downstream processes such as documentation and parts catalogs
- Efficient management of heterogeneous environments through multi-CAD data support
- Leading-edge integration within ENOVIA and SMARTEAM product data management systems

Foster efficient collaboration across the global value chain

V5 DMU provides disciplines and suppliers working concurrently with real-time access to up-to-date product information. It allows project coordinators, estimators, quality engineers — even prospective customers — to visualize and understand the digital mock-up. Placing 3D product definition at the heart of this communication enables paperless processes,

while improving the accuracy of information exchange. By actively involving customers, sub-contractors, marketing and other non-engineers in product definition and decision making, V5 DMU helps organizations work together to build lifetime product success.

Streamline manufacturing processes

V5 DMU provides manufacturing departments with unified access to complete product information, enabling early assessment of product manufacturability, resource and process planning. By reducing or eliminating the need for hardcopy drawings on the shop floor, V5 DMU minimizes common misunderstandings between manufacturing and engineering teams. Using the V5 DMU “master” 3D product definition, organizations can accelerate the entire design-to-manufacturing lifecycle.

Rich 3D for technical publication

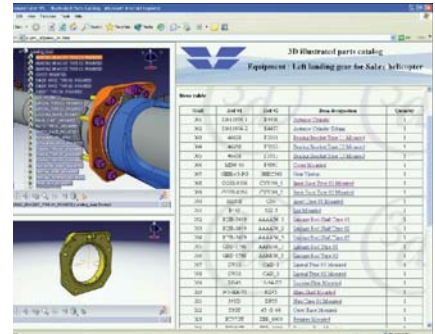
V5 DMU feeds downstream processes rich 3D product information early on in the development process, so documentation departments can create and update illustrations directly from DMU and native CAD data. The enhanced data access and accuracy reduces production costs, while dramatically improving documentation readiness and quality.

Seamlessly integrated within the Dassault Systèmes PLM portfolio, V5 DMU PLM optimizes decision making — from designers

and reviewers to manufacturing engineers and suppliers — throughout the product development process.

Real 3D business advantages

In an increasingly competitive business environment, V5 DMU provides industry-leading OEM customers and their suppliers with significant business advantages by providing the tools to support 3D Master Processes and “paperless” initiatives.



V5 DMU allows you to save your models as a 3D models as a 3D XML file. Those lighter files can then be embedded in technical documentation, manual procedures, etc.

V5 DMU for 3D Master Support is based on the following products:

- DMU Navigator 1
- DMU Dimensioning & Tolerancing Review 1
- DMU Space Analysis 1

A configuration is also available:

- ENOVIA - DMU Review 1

Dassault Systèmes

9, quai Marcel Dassault - B.P. 310
92156 Suresnes Cedex
FRANCE
www.3ds.com

Dassault Systèmes

10330 David Taylor Dr.
Charlotte, NC 28262 USA
Tel.: + 1 800 382 3342
e-mail: plmus@ds-us.com
www.3ds.com/enoviapl

About Dassault Systèmes

As a world leader in 3D and Product Lifecycle Management (PLM) solutions, the Dassault Systèmes group brings value to more than 90,000 customers in 80 countries. A pioneer in the 3D software market since 1981, Dassault Systèmes develops and markets PLM application software and services that support industrial processes and provide a 3D vision of the entire lifecycle of products from conception to maintenance. The Dassault Systèmes portfolio consists of CATIA for designing the virtual product - SolidWorks for 3D mechanical design - DELMIA for virtual production - SIMULIA for virtual testing and ENOVIA for global collaborative lifecycle management, including ENOVIA VPLM, ENOVIA MatrixOne and ENOVIA SmarTeam. Dassault Systèmes is listed on the Nasdaq (DASTY) and Euronext Paris (#13065, DSY.PA) stock exchanges. For more information, visit <http://www.3ds.com>.

CATIA, DELMIA, ENOVIA, SIMULIA and SolidWorks are registered trademarks of Dassault Systèmes or its subsidiaries in the US and/or other countries.
Cover photos courtesy of NIKON, Dassault Aviation, and Bénéteau