



ENOVIA™

DMU V5 PLM OFFERINGS

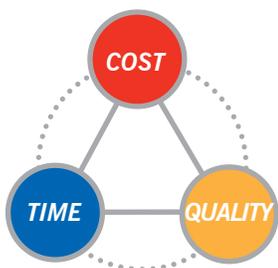
Streamlining digital product validation to promote innovation



Photo courtesy of GMMA

Highlights

- *Unleash collaboration to facilitate innovation*
- *Predict product behaviour earlier in development*
- *Increase visibility of design changes on product variants*
- *Leverage native integration within the CATIA, ENOVIA SMARTEAM and DELMIA solutions*



Today's manufacturers have never been under more pressure

Competition is global, customers are fickle and financial markets unforgiving. Beating the competition, creating customer loyalty and delivering strong business results are essential to survival. These factors depend on repeatedly delivering the right product at the right time and at the right price.

However, balancing increasing complexity with rising performance and quality requirements is a challenge. As 80 percent of development costs are determined early in the product lifecycle, many companies are looking for ways to front-load product development decisions to help meet these time-to-market, quality and cost issues.

Optimise product development to drive innovation

Product Lifecycle Management (PLM) Solutions are essential to creating a collaborative environment that places product innovation at the center of the development process.

Within the PLM environment, Digital Mock Up (DMU) is a key enabler of decision-making

activities that enable innovation. DMU allows development teams to digitally create a product and its environment, then analyse it to gain early insight into key factors that determine quality, performance and cost.

When used as a standalone solution, DMU testing and simulation tools reduce and even eliminate the need for physical prototypes. When DMU is fully integrated with advanced PLM tools and processes, the benefits and savings increase exponentially.

Seamlessly integrated within the Dassault Systèmes PLM portfolio, DMU V5 PLM offerings optimise decision-making — from designers and reviewers to manufacturing engineers and suppliers — throughout the product development process.



Seamlessly integrated within the Dassault Systèmes PLM portfolio, DMU V5 lets you assess the human-product interactions earlier in the virtual stage

Streamline processes and accelerate time to market

DMU V5 provides a single integrated environment, common user interface and common data throughout CATIA®, ENOVIA®, SMARTEAM®, and DELMIA®, providing visualization and complete analysis and simulation of mock ups.

DMU V5 facilitates the rapid propagation of engineering review changes to users' desktops, speeding implementation. This enables more verifications in less time, increasing design quality while reducing time to market.



Advantages

- *Be first to market with right product at right price*
- *Streamline processes to increase business agility*
- *Improve decision making from concept to delivery*
- *Maximise value chain capabilities and cost*
- *Ensure manufacturability early in development*
- *Increase design variations to maximise market value*

Predict product behaviour earlier in the virtual world

DMU V5 simulates 3D product behaviour to facilitate decision making in the virtual stage, reducing the need for physical prototypes, while enabling design and manufacturing process optimisation.

DMU V5 specifically supports manufacturers when assessing the mounting - dismounting, serviceability, appearance, kinematics and ergonomics of their products, improving usability and reducing liability.

Built on the Dassault Systèmes V5 architecture, these simulations can be shared and reused across multiple disciplines, locations and applications.

By sharing the same platform as CATIA V5 and storing simulation criteria, DMU V5 also allows users to replay previous simulations to validate product designs after changes to the 3D product definition.

Increase agility to create and validate design alternatives

DMU V5 offerings foster 'what-if?' scenarios, especially when dealing with several variants of a product, through integrated interference detection and management. DMU V5 provides the 3D interactive capabilities to quickly check, analyse and ensure the spatial integrity of the mock up, then share the results with design and review teams across the value chain.

When combined with ENOVIA V5, DMU V5 provides an in-depth understanding of product behaviour across all variants and configurations. As well as supporting digital mock-up studies, DMU provides a way of managing the results and of reusing analyses, while reducing the risks related to decision making in a complex, dynamic environment.

Enhance communication and collaboration

DMU V5 links virtual workgroups and communities by enabling the real-time sharing of 3D product information. Robust, built-in communication and review capabilities help avoid misunderstandings, reinforce teaming and stimulate innovation.

Realize product and process innovation benefits

In an increasingly competitive business environment, DMU V5 provides customers with significant business advantages, reducing costs while driving product quality, productivity, collaboration and innovation.



Providing one single environment for design and simulation, DMU V5 lets you feel the emotional content of your product in the virtual stage, without any data translation

DMU V5 PLM offerings have enabled Bombardier Rotax to dramatically reduce the number of physical prototypes, saving 300,000 euros each; Toyota MotorSport has reduced the time needed to assemble its first car by 90 percent, significantly increasing vital testing time; and Dassault Aviation's first Falcon7X business jet achieved unparalleled quality levels early in production without a single physical prototype.