



## ENOVIA VPLM V5R21 – FACT SHEET

### *High-Performance Collaborative Engineering*

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## INTRODUCTION

ENOVIA VPLM helps companies take more innovative products to market faster by providing scalable Virtual Product Lifecycle Management of complex Product, Process, and Resource (PPR) information and services. By linking key lifecycle processes and knowledge, ENOVIA VPLM improves decision making and removes obstacles to innovation. Stakeholders in medium to large enterprises can leverage real-time PPR information, Web-based 3D navigation, advanced simulation, and collaboration tools to share insights, optimize designs, and reduce development time and costs - anywhere, anytime.

Together, CATIA, DELMIA, and ENOVIA VPLM provide a virtual, 3D-collaborative environment where stakeholders from marketing to design, to production planning and support can explore and validate decisions within the context of the rich relationships between Product, Process, and Resource knowledge throughout the product development lifecycle.

What distinguishes ENOVIA VPLM from integration-driven PLM systems is our focus on ensuring that product, production, and maintenance data are defined, captured, and managed concurrently to achieve digital Design for Manufacturability and Maintainability. By exploring the rich relationships between product, process, and resource (PPR) objects defined in CATIA and DELMIA, developers and planners can optimize designs and production processes early on in development when the opportunity to innovate is high and the cost of change is low. Validating the product and its production processes before the design is released and before any capital investment is made eliminates costly physical prototypes and significantly reduces development costs and time-to-value. With this new paradigm, “First Built First Sold” products are no longer a dream but a reality.

ENOVIA VPLM places lifecycle engineering, manufacturing, and maintenance information securely at the fingertips of global development stakeholders, whether it is trade studies, sourcing data, digital mock-ups, design reviews, or supply chain production status. This knowledge- rich PLM environment provides the best opportunity for our customers to generate the time and cost savings they need to compete and the continuous innovation they need to win.

Finally, to facilitate flexible and cost-effective integration of our solution with enterprise systems currently in place, ENOVIA VPLM solutions are built on standards-based middleware to support changing market requirements and business growth.

### **ENOVIA VPLM Delivers:**

- Virtual product development environment and lifecycle management of 3D Product, Process & Resource (PPR) data
- The only integrated PLM platform (based on common architecture) for digital design, manufacturing, and maintenance
- Leverages CATIA and DELMIA Relational Design capabilities for concurrent development of design and the virtual production
- Real-time digital mockup validation - from visualization through virtual reality – to drive product optimization

- Connectivity and openness across engineering, manufacturing, and the value-chain
- Sourcing and manufacturing fully immersed in PLM from design through end-of-life

#### **V5R21 AT A GLANCE:**

- Concurrent engineering processes are improved through the use of a more flexible collaboration mechanism and data lock mechanism. Configuration is strengthened with better reporting tools and improved usage productivity.
- Transition to V6 from other ENOVIA legacy systems is smoother and scalable. V5 customers can take advantage of the V6 intuitive user experience and capabilities to monitor the project progress with ENOVIA 3DLive.
- Collaboration with the extended enterprise and supply chain is enhanced through better replication and reconciliation automation, and through increased range of supported formats. In parallel, ENOVIA is continuously updating its data exchange model (for example, supporting the latest STEP standard AP203).
- Overall application usability and ergonomics have been further improved, enabling users to maximize their productivity when using ENOVIA solutions.
- Technical writers using 3DVIA Composer can now benefit from the engineers' intellectual property (IP) stored in ENOVIA VPM V5 to produce technical documentation including 3D media information aligned with the production data definition.

#### **V5R21 OVERVIEW:**

ENOVIA VPLM V5R21 provides companies with enhanced concurrent engineering mechanisms, extended configuration management processes, and more flexible and seamless supply chain collaboration tools, while improving performances and overall system usability, ergonomics and productivity.

- Concurrent engineering processes are improved through the use of a more flexible collaboration mechanism and data lock mechanism. This allows multiple users to work on the same assembly, especially to reuse and move design components, while other users can continue their work on other parts.
- Configuration is strengthened with better reporting tools and improved usage productivity. The effectivity definition is now possible with graphical widgets, which make the configuration edition much more efficient, reducing the number of errors and iterations. Customer configuration process deployment is also facilitated with the standardization of the corporate dictionary across the different business units.
- Transition to V6 from other ENOVIA legacy systems is smoother and scalable. V5 customers can take advantage of the V6 intuitive user experience and capabilities to monitor the project progress with ENOVIA 3DLive.
- Collaboration with the extended enterprise and supply chain is enhanced through better replication and reconciliation automation, and through increased range of supported formats. Every user, even one without particular reconciliator skills, is now able to run a reconciliation using the right rule and mapping. This solution is also profitable for advanced users to get an initial proposition for reconciliation that could be refined if needed. The multi-site replication administration is simplified to avoid errors and strengthen the overall solution. In parallel, ENOVIA is continuously updating its data exchange model (for example, supporting the latest STEP standard AP203).

- Overall application usability and ergonomics have been further improved, enabling users to maximize their productivity when using ENOVIA solutions. Examples include the ability for VPM Navigator users to preview in 3D the whole 3D context before opening the data for modification in CATIA V5, or to lock and unlock part versions and instance in one click, and so on. V5R21 brings a new “Save in ENOVIA” GUI which provides advanced capabilities to simplify the designer’s daily work and to improve productivity.
- ENOVIA data is leveraged with 3DVIA Composer integration. Technical writers can now benefit from the engineers’ intellectual property (IP) to produce technical documentation including 3D media information aligned with the production data definition.

ENOVIA VPLM V5R21 drives innovation and helps companies get the most out of their product development programs. ENOVIA VPLM V5R21 enhancements in concurrent engineering, configuration and change management, OEM-supplier exchanges, and overall system usability and performance bring the entire enterprise closer together during the product development process and into the world of lifelike 3D.