

## V6 brings PLM 2.0 to Life

*Leverage the collective intelligence of CATIA, DELMIA, SIMULIA, ENOVIA and 3DVIA online to accelerate innovation, empower 3D online collaboration and ensure success*



# Overview

PLM 2.0, 'PLM Online for All', is the next step in the evolution of Product Lifecycle Management (PLM), and the V6 'Online for All' platform is the smart way to get there.

The V6 PLM portfolio delivers a single, open and scalable service oriented architecture (SOA) platform that spans the complete business enterprise. It natively delivers the engineering, manufacturing and simulation applications needed to enable users to remotely create and collaborate online.

**V6 solutions** provide industry-proven capabilities and strategic ROI for your enterprise to:

- *Empower successful global collaborative innovation*
- *Accelerate cycle time and reduce development cost via lifelike virtual simulation*
- *Unify access to critical data, across disparate infrastructures*
- *Support integrated, end-to-end product development processes*
- *Leverage the collective intelligence and expertise of your enterprise*
- *Ensure effective complex systems integration*
- *Reduce overall cost of ownership.*

## **Global collaborative innovation**

V6 gives everyone who has a stake in the product the ability to participate in its lifecycle. It offers unparalleled breadth of collaboration, because it embraces the product's creators and ecosystem, such as people in procurement or marketing inside or outside the enterprise, as well as consumers. And because it uses the universal language of 3D, everyone can participate in a product's lifecycle.

V6 also enables 'viral' collaboration. In other words, online communities can form in an ad-hoc fashion, allowing people to connect, exchange views, chat and act on-the-fly in 3D.

And with global collaborative innovation, companies can maximize their intellectual assets to drive the best innovative practices.

## **Lifelike experience**

V6 allows the virtual product to mirror real life. Products look realistic (through rendering) and behave as they would in real life because the model contains the physics.

Additionally, the V6 interface is intuitive. Any user can easily search for information, communicate, collaborate and experience products online in 3D.



### **A single PLM platform for intellectual property management**

The sheer volume of intellectual property (IP) necessitates strong IP management capabilities across a product's lifecycle. The V6 PLM platform delivers a federated view and access to all relevant knowledge, whether the information is in the PLM system, another enterprise application or comes from an unstructured data source. This approach harnesses the collective intelligence of the extended enterprise. V6 merges the various ENOVIA® collaboration capabilities, including those of prior versions of MatrixOne®, VPLM and SmarTeam®, into a single ENOVIA collaboration solution.

### **Online creation and collaboration**

Product authoring and collaboration are enabled for real-time, concurrent work across multiple remote locations over the Web. For example, a designer with CATIA® on a laptop working from home can log in and directly edit a model residing on a server in the office. Online collaboration also applies to the various views of product definition (RFLP):

- *Requirements view*
- *Functional view*
- *Logical view*
- *Physical view.*

Online creation and collaboration are also critical to any company seeking to implement a global engineering and manufacturing strategy.

### **Ready-to-use PLM business processes**

V6 covers PLM processes across a wide range of industries and unifies engineering processes and all enterprise business processes. V6 industry accelerators capture the value within each industry and provide industry-specific PLM product development best practices and capabilities. As a result, deployments are faster and deliver a return on investment sooner.

### **Lower cost of ownership**

Having a single database for all applications dramatically reduces the cost of ownership and spurs efficient collaboration. From a CATIA perspective, design methodologies remain similar to those employed in CATIA V5, minimizing retraining costs. In addition, embracing SOA standards allows easy integration with existing systems and modeling of business processes without requiring programming skills, supporting an adaptable business model.

# V6 PLM Portfolio

## Lifelike experience with 3DVIA V6

3DVIA® Composer revolutionizes the product documentation process for enterprises of all sizes.

## Collaborative innovation with ENOVIA V6

ENOVIA V6 provides an open, online, collaborative environment on a single IP management platform for all product lifecycle activities.

## Virtual Design with CATIA V6

CATIA V6 offers, through a multidisciplinary approach, a full spectrum of virtual design capabilities and enables efficient design collaboration to encourage innovation across the extended enterprise.

## Realistic simulation with SIMULIA V6

SIMULIA® V6 provides the industries' communities, from designers to simulation specialists, with a unique collaborative environment to perform realistic simulation and virtual product behavior testing.

## Digital manufacturing and production with DELMIA V6

DELMIA® V6 delivers a natural, interactive 3D PLM environment for creating, sharing and experiencing manufacturing intellectual property (IP).





# Collaborative innovation with ENOVIA V6

ENOVIA V6 is the next generation platform for enabling PLM 2.0 and harnessing the collective intelligence among online communities. PLM 2.0 brings life to knowledge – from idea to product experience – merging the real and virtual in an immersive, lifelike experience.

ENOVIA is a recognized leader in delivering collaborative PLM solutions. V6 merges the various ENOVIA collaboration capabilities, including those of prior versions of MatrixOne, VPM and SmarTeam, into a single ENOVIA collaboration solution.

The ENOVIA collaborative platform delivers the flexibility, open standards, scalability and industry-specific functionality today's global companies need to tie together multi-discipline engineering groups and product development contributors from other business roles.

## **ENOVIA V6 offers the following for PLM 2.0:**

**Global collaborative innovation:** The future of PLM is about extending the breadth and depth of collaboration. Everyone, regardless of location or status, can collaborate across business processes – from the lowest level of details across all engineering disciplines to the full product definition, bringing together RFLP definitions of the product.

**Online creation and collaboration:** Product creation and collaboration is enabled for real-time, concurrent work across multiple remote locations with only a Web connection. This capability is a major breakthrough for any company implementing a global engineering and manufacturing strategy.

**Single platform for IP management:** On a single platform, V6 supports both IP modeling applications spanning all engineering disciplines and collaborative business processes (CBP) covering the entire product lifecycle.

- *CATIA, DELMIA, ENOVIA and SIMULIA are built natively on this single, open SOA platform.*
- *Data management is supported for most mechanical, electrical and artwork CAD tools.*
- *V6 gives a unified, federated view and access to IP, whether the information is in the PLM system, another enterprise system or originates from an unstructured data source.*

**Ready-to-use PLM business processes:** ENOVIA V6 covers PLM processes across multiple industries, unifying engineering processes and all enterprise business processes, including program management, compliance management and sourcing. The ENOVIA solution *speaks the customer's language* by providing the best practices and capabilities specific to these industries: aerospace and defense, consumer packaged goods, automotive, footwear and apparel, industrial equipment, life sciences, high technology and semiconductor. ENOVIA V6 industry accelerators speed deployment and cut time to return on investment (ROI).

**Lifelike experience:** V6 delivers an intuitive interface critical to a fully immersive product experience. A common interface across all applications brings IP to life in 3D. Any user can search for information, communicate using the universal language of 3D, experience the product and collaborate in an immersive online 3D environment.

**Lower total cost of ownership – Breakthrough return on investment:** The flexible SOA allows easy integration with existing systems and modeling of business processes with no programming skills, supporting an adaptable business model. Industry-specific solutions capture the value within each industry and provide the most straightforward and tailored path to PLM, spurring the adoption and evolution toward complete PLM strategies and leading to breakthrough ROI.

### The ENOVIA domains:

The ENOVIA portfolio is organized by domains, which are logical product groupings based on the business processes that they address. All products across these domains are built with the same technology and can be deployed separately or together as part of a single ENOVIA system. The ENOVIA domains are Governance, Global Sourcing, IP Lifecycle Management, and Unified Live Collaboration.

**Governance** allows companies to launch enterprise-wide new product introductions on-time and on-budget. Within Governance are a number of sub-processes:

- **Requirements Management** captures customer needs to plan new products with the greatest market impact and drive downstream development.
- **Portfolio Configuration Management** determines the optimal mix of product capabilities to meet market demands and minimize engineering costs.
- **Program Management** schedules and tracks all aspects of the product development process in real-time as the work is completed (from creator to collaborator to consumer), enabling visibility and accessibility across the enterprise.

- **Decision Support Business Intelligence** harnesses the organization's collective intelligence in real-time with an immersive 3D environment and dashboards that reveal issues in the product development process.
- **Compliance** ensures that product development activities comply with government and industry regulations.

**Global Sourcing** allows companies to leverage supply chain capabilities throughout the product lifecycle and make their suppliers an integral part of product development. The sub-processes within Global Sourcing are:

- **Supply Chain Network** capabilities allow companies to securely involve supply chain employees in the entire product lifecycle.
- **Collaborative Sourcing** implements a design for supply strategy with repeatable and standardized direct material sourcing processes that provide the latest design information to the supply chain and valuable supplier quotation input to engineering.
- **Supplier Performance Monitoring** enhances the supplier partnership by designing, implementing and tracking part qualification plans, supplier development plans and scorecards.



**IP Lifecycle** eliminates costly product development errors by enabling improved cross-functional product design, manufacturing planning, and performance simulation. The sub-processes within the IP Lifecycle domain are:

- **IP Work-In-Progress** enables a consistent, multi-discipline product definition by uniting creators, collaborators and consumers through a single process based on RFLP product definitions.
- **IP Asset Release** synchronizes specifications and BOMs from concept to planning to production, reducing errors and costs while enhancing quality and time to market.
- **IP Classification & Re-Use** decreases costs and promotes knowledge transfer by classifying IP for reuse.

**Unified Live Collaboration** allows companies to deploy product lifecycle processes across the extended enterprise by providing a single view of IP across all business process domains, powerful collaborative process management capabilities and an SOA that integrates with other enterprise systems. The domain contains the following sub-processes:

- **Data Warehouse Indexing and Search** aggregates IP across all business process domains into a single meta-model so users across the extended enterprise can easily and quickly find product IP based on key words and file content regardless of how it was originally created.
- **Business Process Management and Execution** enables collaboration involving stakeholders across product development and identifies where the business process needs to be modified to eliminate bottlenecks.
- **IP Asset Federation** leverages product information from other enterprise systems by federating their IP into the context of product development business processes.
- **iPLM Collaboration Studio** provides the administrative tools to manage and deploy the ENOVIA system with flexible tools that lower total cost of ownership while fulfilling unique business needs.



## Virtual design with CATIA V6

CATIA V6 offers, through a multidisciplinary approach, a full spectrum of virtual design capabilities and enables efficient design collaboration to encourage innovation across the extended enterprise, far beyond traditional core engineering users. CATIA V6 delivers a world-leading solution for 3D product and behavior creation. It puts 3D collaborative innovation at the heart of the company and helps accelerate its transformation toward a full PLM 2.0 approach, addressing all manufacturing organizations.

**Global collaborative innovation:** Broadens CATIA usage beyond designers to casual users within and outside the engineering department. Ground-breaking collaboration tools enable 3D brainstorming within the community of PLM users to reach a new level of innovation.

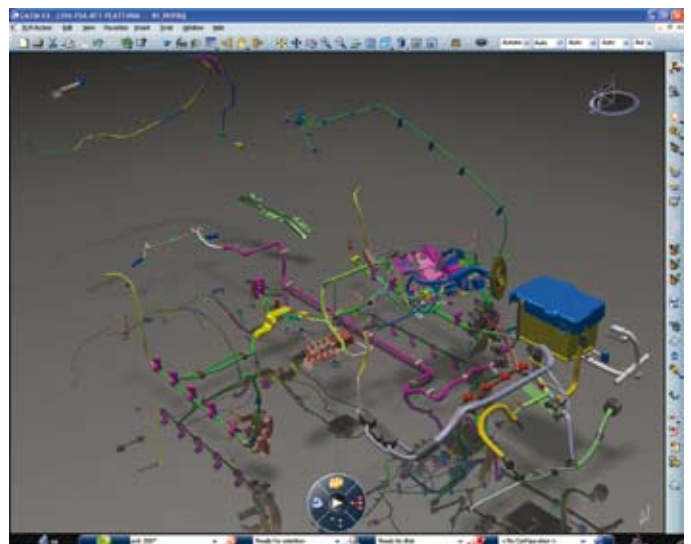
**Lifelike experience:** Introduces a paradigm shift to enable first-life experience and bring 3D product design to life with unmatched realism. In addition, CATIA V6 offers compelling simplicity and efficiency with in-context 3D manipulators and natural 3D operations.

**Single PLM platform for IP management:** Harnesses collective intelligence, making the always up-to-date product definition accessible to the various communities from anywhere, at any time. CATIA V6 facilitates multi-discipline collaboration among designers, engineering users and manufacturing users from one unique IP repository, making the company knowledgeware assets available to all participants.

**Online creation and collaboration:** Reaches new disciplines with CATIA Systems and widens the traditional scope of CATIA to requirements, functional and logical views of the physical product in a collaborative manner. This allows for direct traceability of the product from the beginning to end phases of creation. CATIA V6 delivers PLM objects that match collaborative design innovation, eliminating heavy assembly files, enabling true concurrent design and eliminating the needs for high reference management among part, drawing and products.

**Ready-to-use PLM business processes:** Opens new opportunities for new industries such as consumer packaged goods, consumer goods and high tech. The CATIA product portfolio continues to cover more industry processes.

**Lower cost of ownership:** Protects the V5 investment. As a natural extension to V5, CATIA V6 ensures a smooth upgrade and short ramp-up from V5 to V6. There is an easy transition to V6 with the use of the same modeler and ready-to-use migration path.





### **The CATIA domains:**

CATIA organizes its V6 Virtual Design offering into the following domains:

#### **CATIA Systems**

Across industries, products are getting increasingly complex, involving many more engineering disciplines, with the value shifting from the products themselves to the actual services that demanding customers expect from these products.

##### *Systems engineering*

A collaborative system engineering methodology is critical to address these transformations. CATIA Systems uniquely captures, manages, and tracks product requirements with full traceability, ensuring that these early requirements are met accurately all along the product development cycle, from functional architecture and logical breakdown to physical design and testing.

##### *Behavior modeling and simulation*

With CATIA Systems, the components from multiple disciplines (such as mechanics, thermodynamics, and electricity including electronics) as well as the numerous interactions between them are modeled on a unique common platform to enable dynamic simulation of the complete system via a virtual prototype. The behavior of the product in operation is assessed while various design alternatives can be tested very early on.

#### **CATIA Shape**

CATIA Shape provides industrial designers, modelers, and mechanical engineers with a full suite of surfacing, reverse engineering, and visualization solutions to create, modify, and validate any type of complex innovative shapes and help streamline the transition and collaboration between Design and Engineering departments.

From subdivision and styling to mechanical functional surfaces, CATIA Shape covers all the surface creation and modification needs. It also supports the complete reverse engineering process from the import of digitized data to the recovering and finalization/completion of high quality surfaces.

#### **CATIA Mechanical**

Finding ways to reduce design-to-manufacturing cycles and improving productivity are key priorities. CATIA Mechanical delivers a highly collaborative and flexible design environment with full concurrent engineering and high performance change management through relational design to enable the efficient definition and engineering of any type of 3D parts and assemblies, from the simplest to the most advanced. In V6, CATIA expands 3D design to user communities outside of the design office, addressing each profile with the right modeler capabilities: direct 3D modeling, geometrical surfaces handling, feature-based design and history-free functional modeling.

##### *Conceptual design*

Breakthrough direct 3D modeling technology opens the doors of creation and 3D experience to new contributors who can quickly and easily sketch any idea in 3D. These new design ideas can then be reused as preliminary shapes by designers further down the process.

##### *Detailed design*

Highly integrated tools automate the detailed design process and provide a smart management of complex assemblies, from part positioning through mechanical assembly constraints definition to drawing generation and assembly consistency checks, thanks to mechanisms simulation.



*Rendering created with CATIA V6*

### *Manufacturing preparation*

Advanced process-driven functionalities, such as the automatic definition of complex drafts and fillets to optimize foundry and forge tooling design of forged and complex cast parts, ensure that manufacturing intent is captured in the early stages of design to avoid manual, lengthy operations, as well as improve manufacturability and productivity.

### **CATIA Equipments**

CATIA Equipments provides an integrated environment that enables the collaborative detailed design of electronic, electrical, and fluidic systems in context of a virtual product. While design is driven by the system logical definition to ensure conformity with product specifications, full traceability, and configuration management, knowledge rules are integrated to enable the automatic compliance to standards throughout the design process, all the way to the production of associative documentation for manufacturing. Such an integrated environment improves design quality, drastically reduces time needed for modifications, and minimizes errors.

### *Electrical*

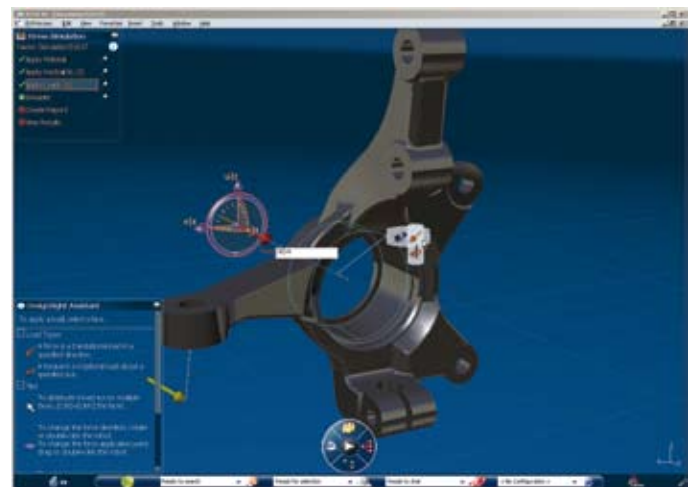
CATIA Equipment delivers a dedicated electro-mechanical end-to-end solution for designing and documenting electrical modules in all industries that design electric, electronic and electro-mechanic components.

### *Piping and tubing*

CATIA Equipment also provides general layout tools for intelligent placement of parts as well as a full set of routing and parts placement methods.

### **CATIA Knowledge & Re-Use**

Design Knowledge & Re-use enables companies to model, capitalize and re-use the full complexity of their engineering knowledge in order to accelerate and secure drastically their product development processes. Design Knowledge and Re-use accelerates a company's business processes while ensuring compliance with its best practices and taking advantage of its collective know-how. It provides an access to advanced design parameterization, knowledge capture as well as optimization tools, and enables the definition of standard rules and checks for design quality assessment.



*Simulation with SIMULIA V6*

# Realistic simulation with SIMULIA V6

SIMULIA enables collaboration when performing virtual tests and complying with performance specifications. Its portfolio provides powerful tools that enable designers and engineering analysts to perform fast, accurate performance studies on parts, components and products designed with CATIA.

**Global collaborative innovation:** Simulation results are leveraged throughout the enterprise to drive design performance and business-related decisions. Because simulation is often performed by specialist teams, it is particularly beneficial for a designer to collaborate with an analyst performing simulation. Immersive chat and the ability to create and compare snapshots facilitate easier and quicker communication between both designer and analyst when determining the optimal design structure.

**Online creation and collaboration:** The online nature of V6 offers real-time, online access to simulation models and results. Models can be accessed anywhere, at any time and shared within teams.

**Single PLM platform for IP management:** Users can manage and secure simulation-generated IP on a single platform, within a shared database. V6 extends the concept of PLM from the management of product information to the management of simulation data and processes. The single platform is as important for making simulation information easily accessible across the enterprise as it is for product data. Ultimately, it allows simulation IP to be captured and leveraged in the future.

**Ready-to-use PLM business processes:** A key part of making simulation an integral business process involves developing and deploying standard simulation processes, managing those processes within simulation lifecycle management (SLM) and then ensuring those processes are used consistently across the enterprise.

**Lifelike experience:** SIMULIA V6 lets users experience physically realistic 3D product behavior to accurately predict the behavior of a product under real world conditions. Simulation provides a deeper insight into product behavior that not only allows the number of expensive physical tests to be reduced, but also increases confidence in the design.

**Lower total cost of ownership – Breakthrough return on investment:** SIMULIA V6 enables customers to consolidate applications by reducing the number of different simulation tools employed by an enterprise.

## The SIMULIA domains

The SIMULIA portfolio is organized by domains – product families organized according to business process:

**Compliance** enables virtual testing and the exploration of real-world product behavior to ensure compliance with regulations or performance targets such as safety, strength, durability, reliability and manufacturability.

The DesignSight™ product lets designers who have minimal simulation knowledge assess compliance with performance and manufacturability requirements.

**Multiphysics Digital Lab** is the state-of-the-art in simulation today. It supports industries' extreme diversity of multiphysics simulation requirements, which dramatically reduces the need for physical testing.

**Open Scientific Platform** is the foundation for the development of the lifelike simulation ecosystem of V6. It provides an open architecture that supports partner applications.

**iPLM Collaborative Innovation** domain is a collaborative environment that allows users to capture, manage, reuse, automate and make decisions on cross-functional simulation and scientific data, processes and IP over the entire lifecycle.

# Digital manufacturing and production with DELMIA V6

DELMIA V6 delivers a 3D collaborative innovation and production experience for all participants in the manufacturing lifecycle, from virtual process and system definition, workcell setup, optimization, scheduling and operation to the maintenance of real-time production systems. Collaborative manufacturing lifecycle management (MLM) in the 3D virtual world brings all IP in the corporate community into one system. This allows all participants to make correct and timely decisions by accessing up-to-date manufacturing lifecycle information in a way that makes it as fast and easy as surfing the Web in the 3D virtual world of DELMIA. Process engineering is accelerated to achieve maximum production efficiency, lower costs, improved quality and reduced time to market.

**Global collaborative innovation:** V6 makes manufacturing and production information available to the dynamic communities of an extended enterprise. Powered by the V6 single platform, the right people in the global community have immediate access to people, teams, IP and manufacturing assets, thereby accelerating IP sharing and creation by expanding the knowledge network with collaborative communities.

**Lifelike experience:** Through its unique and revolutionary 3D navigation of manufacturing data, V6 provides a natural 3D PLM environment for locating, viewing and authoring manufacturing IP. Additionally, new and innovative PLM context-based 3D authoring tools provide a user-friendly experience when authoring manufacturing IP. V6 provides a new experience in process planning where the planner can define an assembly process using a natural and intuitive approach within the 3D product environment.

**A single PLM platform for IP management:** V6 effortlessly connects all PLM enterprise business processes with a single platform, accelerating IP creation through the pervasive proliferation of all engineering and manufacturing information and knowledge. A common user interface (UI) experience for all applications fosters active participation of all stakeholders in the product and the lifecycle. Context-based decision making is enabled by automatic change propagation that is accessible by all communities in the PLM 2.0 environment.

**Online creation and collaboration:** Today's demands on global manufacturing require the power of V6 in a mobile environment that enables you to connect, author, and collaborate to make optimum business decisions wherever you are through Web-enabled authoring of manufacturing processes and real-time collaboration with remote locations. V6 provides interactive Web-based access to all production assets including plants, resources, processes and best practices, fostering innovation and collaboration with the global supply chains.

**Ready-to-use PLM business processes:** Transform your manufacturing operations through ready-to-use, industry-specific PLM business processes that capture the value within each industry and provide the smartest and most tailored path for PLM 2.0 to drive innovation. Using these PLM business processes, manufacturing becomes an integral part of program management using common IP, predefined industry-specific workflows and best practices.





# Lifelike experience with 3DVIA Composer

3DVIA Composer revolutionizes the product documentation process.

## Highlights

- *Integrate, compile, and publish 3D-based technical documentation*
- *Integrate relevant 3D content from product development*
- *Create online, animated and interactive documentation in 3D*
- *Seamlessly link documentation to the increasingly dynamic product design process.*

3DVIA Composer revolutionizes the product documentation process for enterprises of all sizes. With its easy-to-use desktop content-creation system, 3DVIA Composer quickly and easily automates the creation of assembly and disassembly procedures, technical illustrations, interactive 3D animations, training materials, marketing materials, sales tools and more.

3DVIA Composer is the only system that delivers immediate return on investment while simultaneously being a valuable long-term integration platform that ensures consistency and accuracy across documentation processes.

## Immediate productivity

3DVIA Composer is a desktop-based solution that delivers immediate end-user productivity. An ideal complement to the content-creation tools end-users are already familiar with, such as Microsoft® Office® applications, HTML and PDF, 3DVIA Composer is easy to learn and use. For content consumers, 3DVIA Composer eliminates the need to learn a new desktop tool to access accurate and up-to-date deliverables. 3DVIA Composer ties desktop and enterprise systems together for both content consumers and content creators.

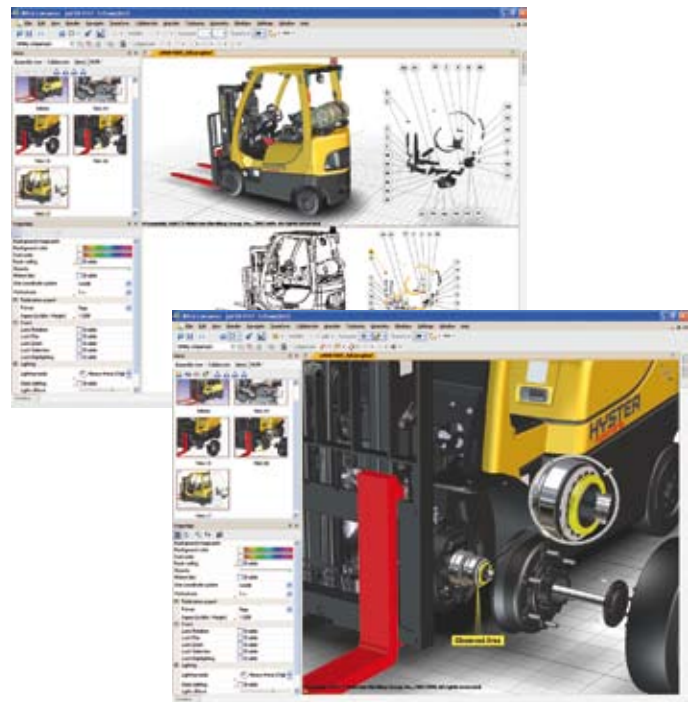
3DVIA Composer can be quickly and easily deployed on users' desktops without the need for expensive back-end infrastructures. Equally, with its XML-based architecture, it can be easily integrated into product lifecycle management (PLM) and enterprise resource planning (ERP) solutions.

## Information everywhere

Animations including kinematics and reverse-kinematics, as well as high resolution raster in several formats, can be created easily. Producing 2D line art is quick and easy with 3DVIA Composer's built-in technical illustration capabilities.

Product information stored in ENOVIA systems can be directly accessed using the power of ENOVIA 3DLive. 3DVIA Composer users can easily and visually navigate and filter the exact 3D product configuration stored in ENOVIA, and use it to create and update their 3DVIA Composer documentation projects.

3DVIA Composer allows users to control and manage access to their intellectual property in 3DVIA Composer-generated deliverables. With 'Rights Manager' settings, content creators can manage access control when playing content with 3DVIA Composer Player and can also use patented 'Secure3D' technology to prevent copying or theft of the intellectual property. Interactive content can also be directly published to 3DVIA.com, where the users can experience the content on-line.



## Choose IBM – the PLM leader

When you choose IBM PLM, you get the full value of the IBM brand: trust, quality, experience, financial stability, global reach and a proven code of conduct. As your PLM partner, IBM offers deep industry knowledge, experience as a world-class manufacturer, strength in research and development, a broad range of solution offerings and a long-standing commitment to PLM.

With state of the art resources such as technical proof of concepts, IBM Global Business and Laboratory Services and third-party software from leading IBM Business Partners, IBM PLM can help you transform your business. With IBM PLM solutions, capturing best practices, educating and training your workforce and integrating your enterprise is not only possible, it's real.

### **The IBM difference**

IBM's PLM expertise and leadership continues to be valued by our clients. Today, we are so much more than a PLM application software vendor.

We have expanded our scope to include the integration capabilities that organizations need to manage the complexities of the entire value chain. IBM is the only company that can deliver the complete PLM solution. Our unmatched combination of consulting, applications, middleware, hardware and services, coupled with a broad knowledge of industries and IT solutions, equips us to build complete PLM solutions to fit every business – large and small. This is the IBM difference.

When you choose IBM as your PLM partner, you are choosing:

### **Leading PLM development**

IBM leads the development of PLM. Our value proposition is built on a foundation of decades of world-class IBM technology expertise, supported by thousands of IBM engineers and developers in 40 different countries and eight US national medals of technology. This expertise is valued across the globe, and has enabled us to develop links with business partners that continue to evolve and improve the value we can add for our clients.

### **An unrivalled commitment**

Our unmatched annual investment in R&D – the key to innovation – stands at approximately \$5.5 billion. This is testament to our commitment to helping your organization succeed in a world of change. In 2006, IBM innovators contributed to 3,261 patents awarded to IBM – an average of 10 patents a day. United States Patent and Trademark Office statistics show that IBM has generated more patents than any other company for 14 consecutive years.

### **A world-class manufacturer**

IBM possesses deep industry experience and knowledge of the challenges you face. As a primary user of PLM, we understand your business processes and have the support of a global team of engineers to help tackle your real world issues – and keep you ahead of your competition.

### **Breadth of offerings**

We can impartially recommend PLM offerings to suit your organization, and employ and integrate the solution with your extended enterprise.



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