



STEP UP TO SPEED UP

Expand from Design to BOM Management with Collaborative Engineering

How can you better leverage your data to: Gain better visibility and control over product development processes? Significantly accelerate your products' time-to-market? Stepping up from CAD management to item-centric PLM with ENOVIA SmarTeam helps you achieve this and more with Collaborative Engineering.

Using PDM to manage your CAD data is the first step to PLM success. But to realize your company's full PLM potential, you need to step up to multi-disciplinary item and BOM management...

ENOVIA SmarTeam provides item-centric PLM – a Collaborative Engineering offering involving your whole product team in simultaneous, integrated design, BOM, and workflow management.

How will you benefit?

- **Enhance Collaboration**
by expanding your single product data repository beyond design.
- **Manage Product Configurations**
by efficiently synchronizing complex product data across entire product development lifecycle.
- **Improve Product Decisions**
such as feasibility, costing and production planning by integrally managing all aspects of a product's structure, synchronizing the design, the Engineering Bill of Material (E-BOM) and all their components.

- **Streamline Change Management**
by automating workflow processes including both design and non-design elements.
- **Improve Accuracy**
by automatically creating E-BOM item structures from designs and transferring them to your ERP system.

What will you achieve?

- **Zoom In**
Each and every user can easily locate any product data for any task at any stage of any product's development.
- **Analyze Impact**
Each and every authorized user can undertake any change in any product at any time and know the potential impact of that change on all the products.
- **Keep Track**
The system keeps a full record of the development of all products, including all changes in all product configurations across their full product structures – automatically.

Same BOM – Same Time

Concurrent Engineering — when all users can simultaneously access E-BOMs from design to manufacture — at all times — drastically speeds up your products' time-to-market.

“Achieving almost all of the many benefits of Product Lifecycle Management (PLM) systems will depend on effective BOM management... Moreover, it is also necessary to continuously monitor the processes of BOM management over its lifecycle to ensure timely release of the product...the spirit of Concurrent Engineering must prevail.”

Dick Bourke, 2PLM V9

“For the first time, the company has a unified R&D project system that encapsulates and defines all our parts and project data.”

Heath Tipton, PLM Project Manager, Avery Weigh-Tronix, UK



Consider this: you have a variety of product configurations which are distinct in the way they need to be manufactured, shipped and sold, but their 3D designs are identical. How can you manage them efficiently?

With ENOVIA SmarTeam's Collaborative Engineering, you can apply business rules to manage the development of all components that make up a product, including CAD designs and other multi-disciplinary elements. Using a structured method to manage product definition and behavior lets you accurately configure CAD designs, engineering and manufacturing BOMs as well as configure views according to stages, users and other filters such as effectivity or revision rules.

Key Advantages

- Data synchronization increases efficiency
- Automated tasks and data integrity reduce errors and save time
- Concurrency and collaboration speed product development and improve quality
- Configuration control enables data consistency across systems
- Modular approach for smooth implementation and high ROI

Automating engineering change processes such as ECOs and initiating them from the E-BOM, you're ensured rapid, comprehensive management of all product changes – all in one consistent format.

Typical business process scenarios such as “design-to-configure”, “design-to-order”, “engineer-to-order” streamline your product development. Using best practices based on recognized engineering methodology standards improves both the processes and quality of your product.

Key Features

- Robust, Flexible Item Lifecycle Engine
- Configurable product structures and views
- Predefined engineering processes
- Automated BOM Editor and Workflow tools
- Powerful compare, map, sync, merge and other decision-support tools

COLLABORATIVE ENGINEERING – A Modular Implementation Approach

You have benefited by implementing a PDM solution for secure, structured, uniform access to your CAD design and related product documents. Now you are ready to further leverage that investment by taking the next step along the PLM path. Expanding your scope beyond design, enabling all users to collaborate on one Engineering BOM using powerful item and configuration management and workflow tools, will significantly streamline your product development.

The modularity, scalability and flexibility of ENOVIA SmarTeam facilitate a phased implementation approach enabling smooth and easy transition between phases. The successful combination of a modular approach with best practice PLM scenarios makes ENOVIA SmarTeam the application of choice for over 4,000 customers, who have sought fast return on investment (ROI) on a rapidly deployed, scalable cPDM solution that is simple to use, tailor and maintain. This is key to extended PLM success.



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About Dassault Systèmes

As a world leader in 3D and Product Lifecycle Management (PLM) solutions, Dassault Systèmes brings value to more than 100,000 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>

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