

10.7 Portfolio



Enable Innovation Through Collaborative
Product Development Business Processes

ENOVIA MatrixOne





Innovation Through Collaborative Product Development Business Processes

ENOVIA MatrixOne collaborative product development business process solutions enable companies to bring together people, processes, content and systems to achieve a compelling advantage. From the conception of the new product, right through to delivery, ENOVIA MatrixOne Product Lifecycle Management (PLM) solutions address the demands of role-based knowledge workers throughout the organization by:

- Transforming the value chain into a virtual enterprise
- Implementing standards-based solutions built to support global, enterprise-wide deployments
- Managing globally dispersed programs, project teams and connected activities
- Optimizing industry best practices and process excellence

The goal of the collaborative business process is to put information into the hands of users who need it and when they need it. The result is real-time visibility into programs and projects, leading to more informed decisions such as when to eliminate marginal projects, how to keep high-ROI projects on track, predict product/project results and align appropriate resources to the most important projects. By adopting an enterprise wide collaborative business process solution, companies are able to improve quality and innovation.

Enterprises across all industries are embracing global outsourcing as a powerful means for cost reduction, efficiency and profitability. This model, however, is only as good as the platform supporting it. In order to realize these benefits, a company's PLM strategy must be supported by a proven platform capable of scaling to support the largest, most complex deployments and flexible enough to work in a variety of environments and quickly respond to change. It must also provide the high performance necessary to enable the adoption of business process best practices across the global enterprise and throughout its value chain of customers, suppliers and partners.

ENOVIA MatrixOne 10.7 Collaborative Business Process Applications

The ENOVIA collaborative product development environment addresses the full spectrum of product and business processes, from small-scale teams to extended enterprises with many thousands of users. ENOVIA offers solutions to manage simple as well as highly engineered complex products across a broad range of industries. The solutions are flexible, rapidly deployed, and easily configurable to provide secure product data management and collaborative benefits across teams, departments, and work sites, customers, suppliers and other value chain partners.

There are three offerings within the ENOVIA portfolio:

ENOVIA VPLM is a virtual product development environment for designers, sourcing specialists and production planners in medium to large companies.

ENOVIA SmarTeam solutions provide collaborative product data management for mid-sized companies and engineering divisions of large organizations.

ENOVIA MatrixOne solutions provide collaborative business processes for the enterprise level organization, including industry specific solutions based on proven best practices.

The MatrixOne environment is organized by "domain", which represent a logical grouping of products based on the problems that they are intended to address. Within each domain, products are organized into base products and optional products which can be used to further expand functionality, depending upon specific business or industry need. All products across the MatrixOne domains, and across the ENOVIA product portfolio are built with the same compatible technology and can be deployed together as part of a single MatrixOne system.

There are seven MatrixOne product domains:

- **Platform Products** establish the necessary environment for running all other MatrixOne products; includes tools for administering the system and integrations that can be applied to all other available product domains.
- **X-BOM Management Products** provide cross-functional bill-of-material management and change control capabilities.



- **Compliance Management Products** provide capabilities to manage product compliance to government regulations currently focused on materials compliance.
- **Portfolio Management Products** provide capabilities to manage the product portfolio and execute new product introduction (NPI) development programs to deliver the products to market.
- **Supplier Relationship Management Products** extend the product development process to the supply chain.
- **Collaborative Product Engineering Products** provide cross-functional CAD design collaboration and tool integration.
- **Vertical Products** extend offerings from the process domains with industry specific terminology, data types, and functionality.

ENOVIA MatrixOne 10.7 Platform Products

Base Products

MatrixOne Platform (PLF)

The MatrixOne Platform is the underlying support of all of the MatrixOne collaborative business process applications. It has a very robust and broad integration API set which allows integration to multiple third party enterprise and desktop tools—from MCAD to ECAD, to document management, ERP, etc. This platform is the information or the PLM backbone that allows an organization to leverage investments in third party authoring tools and enterprise systems and pull that information together so knowledge workers can be prepared to make better decisions, conceptualize new products and get them to market faster than ever before.

MatrixOne Application Exchange Framework (AEF)

The MatrixOne Application Exchange Framework provides schema and user interface components for building all MatrixOne products. User interface components help companies to expand standard MatrixOne product functionality with unique capabilities and enables seamless process execution by defining how data is to be shared across all MatrixOne products. This data model is designed to easily integrate with other Dassault Systèmes products, such as 3DLive which enables 3D collaboration and product visualization.

Optional Products – Administration tools

- **MatrixOne Adaplet Development Kit**
- **MatrixOne Application Development Kit**
- **MatrixOne Platform for File Collaboration**
- **MatrixOne Platform for Development and Test**

Optional Products – User tools

- **MatrixOne Adaplet Development Kit**
- **MatrixOne Autonomy K2 Integration**
- **MatrixOne Cimmetry AutoVue Professional w/ Integration (2D)**
- **MatrixOne Cimmetry AutoVue Professional w/ Integration (3D)**
- **MatrixOne Endeca Integration**
- **MatrixOne Microsoft Desktop Integration**

Optional Products - Process management tools

- **MatrixOne Business Metrics Module**
- **MatrixOne Library Central**
- **MatrixOne Team Central**

ENOVIA MatrixOne 10.7 X-BOM Management Products

Base Products

MatrixOne Engineering Central (ENG)

MatrixOne Engineering Central enables companies to help eliminate the significant process and data communication barriers that exist between mechanical, electronics and software engineering disciplines within the enterprise and the product supply chain.



MatrixOne Specification Central

MatrixOne Specification Central delivers a single platform for secure specification management. It is designed to enable enterprises to better manage and standardize on the development, review, approval, and distribution of product specifications. This includes those related to packaging, raw materials and formulas. The result is a single and global view of each product specification with role-based visibility into the specification content.

Optional Products— Advanced BOM Management

- **MatrixOne ClearCase Integration**
- **MatrixOne Cost Analytics Module**
- **MatrixOne Manufacturing Bill-of-Material Module**
- **MatrixOne VPLM Enterprise XBOM Management Integration**

Optional Products— ERP integrations

- **MatrixOne JD Edwards Direct Integration**
- **MatrixOne JD Edwards EnterpriseOne Integration**
- **MatrixOne Oracle Manufacturing Integration**
- **MatrixOne QAD MFG/PRO Integration**
- **MatrixOne SAP Integration**

ENOVIA MatrixOne 10.7 Compliance Management Products

Base Products

MatrixOne Materials Compliance Central

MatrixOne Materials Compliance Central enables companies to implement a Design for Environment solution with best business practice that include the ability to collect, integrate, analyze and report a product's environmental compliance throughout its development lifecycle. Product development teams can check material content information from any design view, and are able to cross-reference this data against multiple regulations.

Designers can quickly determine if components meet all the compliance standards and substance thresholds in order to make any necessary changes early in the design process.

Optional Products

- **MatrixOne Materials Compliance Central Compliance Connect Spreadsheet**
- **MatrixOne Materials Compliance Central Supplier Portal**

ENOVIA MatrixOne 10.7 Portfolio Management Products

Base Products

MatrixOne Product Central

MatrixOne Product Central enables improved communication and collaboration between a company's product planning and development organizations by managing and tracking evolving customer and market needs throughout the entire product development lifecycle. As a result, companies should be able to align all stakeholders, accelerate time-to-market and maximize revenue potential and profitability associated with each product development effort.

MatrixOne Program Central

MatrixOne Program Central can help companies deliver products from concept to market faster. Organizations can free critical resources to concentrate on the most profitable products while standardizing best in class business processes across the extended enterprise. Through project pipeline dashboards, this solution provides management with real-time visibility into a project's status in terms of schedule, resources, costs and benefits. Ultimately, this should allow for better decision making when analyzing which projects offer the highest potential return on investment.

Optional Products

- **MatrixOne VPLM Program Management Integration**



ENOVIA MatrixOne 10.7 Supplier Relationship Management Products

Base Products

MatrixOne Sourcing Central

MatrixOne Sourcing Central is a sourcing and quotation management application that provides out-of-the-box functionality to enable global organizations to help improve collaboration with their suppliers and partners, and help streamline the buyer-supplier interaction related to the sourcing of direct materials and highly engineered goods.

MatrixOne Supplier Central

MatrixOne Supplier Central is designed to help quality managers improve quality from the very beginning of the product lifecycle. Quality managers can create part quality plans from Work Breakdown Structures (WBS) templates, allowing quality planning methodologies to be standardized, customized and measured with a combination of control and flexibility. Dashboards and status tools with drill-down capabilities inform managers of areas in need of attention, ideally before product delays occur.

ENOVIA MatrixOne 10.7 Collaborative Product Engineering Products

Base Products

MatrixOne Designer Central

MatrixOne Designer Central enables designers to manage and collaborate globally using one application that supports a wide variety of design tools. MatrixOne Designer Central eliminates the need for multiple CAD (Computer Assisted Design) work group managers and the associated cost with supporting each related data manager. Through its unique and open architecture, the MatrixOne Designer Central application can be deployed and supported from a central location, while the file locations can be distributed and controlled around the world to provide end users with improved performance during file downloads and uploads.

MatrixOne Designer Central for Visualization

Unlike standard MatrixOne Designer Central, this product is intended for customers that have decided to develop their own xCAD model upload and download capabilities or take advantage of basic MatrixOne file management capabilities.

If a MatrixOne xCAD integration product is preferred for CAD Model file management, then standard MatrixOne Designer Central should be used.

Optional Products - MCAD

The following MatrixOne mechanical CAD integrations leverage MatrixOne Designer Central capabilities to add data management for a given MCAD system:

- **MatrixOne AutoCAD Integration**
- **MatrixOne CATIA V4 Integration**
- **MatrixOne CATIA V5 Integration**
- **MatrixOne Inventor Integration**
- **MatrixOne MicroStation Integration**
- **MatrixOne Pro/E Integration**
- **MatrixOne Pro/I Integration**
- **MatrixOne Solid Edge Integration**
- **MatrixOne SolidWorks Integration**
- **MatrixOne Unigraphics Integration**

Optional Products - ECAD

The following MatrixOne electronic CAD integrations leverage MatrixOne Designer Central capabilities to add data management for a given ECAD system:

- **MatrixOne Cadence Project Manager Integration**
- **MatrixOne Cadence Allegro Design Entry HDL Integration**
- **MatrixOne Cadence Allegro PCB Editor Integration**
- **MatrixOne Expedition (VeriBest) Integration**
- **MatrixOne Mentor Graphics Design Manager Integration**
- **MatrixOne Zuken System Designer Integration**
- **MatrixOne Zuken Board Designer Integration**
- **MatrixOne Zuken Board Producer Integration**



ENOVIA MatrixOne 10.7 Vertical Products

Industry-specific solutions leverage the flexibility of the MatrixOne collaborative platform as well as the depth and breadth of years of experience working in major industries. ROI can be realized even faster when a PLM implementation includes an industry solution, as fewer IT resources are required to adopt world-class processes across the product value chain. Solutions are available for the following industries:

Aerospace & Defense

MatrixOne Aerospace & Defense Accelerator for Program Management

The MatrixOne Aerospace & Defense Accelerator for Program Management is used to manage development programs while ensuring compliance with all contractual guidelines and regulations. It provides an integrated environment, for tracking all of a program's information about requirements, product architecture and configuration, schedules and deliverables.

Apparel

MatrixOne Apparel Accelerator for Design and Development

The MatrixOne Apparel Accelerator for Design & Development provides a single environment to manage an Apparel company's product, project, color, material, line plan, and vendor data. It effectively allocates and manages resources across all functional teams by tracking seasonal line planning calendars, approvals and responsibilities. Companies using the MatrixOne Accelerator for Apparel Design & Development can quickly react to shifts in seasonal requirements, industry trends and consumer tendencies by leveraging robust and flexible workflow and planning templates visible to all product/project team members

Automotive

MatrixOne Automotive Accelerator for Program Management (APQP)

The MatrixOne Automotive Accelerator for Program Management (APQP) provides auto companies with the processes and tools to manage and improve the execution of complex automotive vehicle programs through the supply chain tiers with industry best practices and standards. It includes industry specific standard templates for the phase-gate APQP process and the standard PPAP incorporating the latest ISO/TS 16949 standard. It also contains pre-defined work processes, industry specific data models, reports, role-based user interfaces, and document management capabilities to provide rapid ROI and benefits to the implementation.

Medical Device

MatrixOne Medical Device Accelerator for Regulatory Compliance

The MatrixOne Medical Device Accelerator for Regulatory Compliance manages a medical device company's QSR and ISO-regulated design processes, projects, documents and data. This application provides full audit trails and powerful authentication controls for FDA Part 11 compliance.

Semiconductor

MatrixOne Semiconductor Accelerator

The MatrixOne Semiconductor Accelerator provides capabilities to address a number of key business challenges specific to the Semiconductor industry. The standard capabilities are Web-based issue management and collaboration in secure, structured, virtual workplaces for ad-hoc collaboration amongst cross-functional and geographically dispersed teams. Optional Accelerator capabilities include IP management, enterprise project management and preparation of the IC bill-of-material and a number of pre-configured design flow templates.



About ENOVIA MatrixOne

ENOVIA MatrixOne is part of Paris based Dassault Systèmes and the ENOVIA PLM Collaborative Environment family of solutions. The ENOVIA MatrixOne solutions enable companies to accelerate product innovation to achieve top line revenue growth and improve bottom line profitability. ENOVIA MatrixOne is focused on helping companies across the automotive, aerospace & defense, consumer, machinery, medical device, semiconductor and high-tech industries solve their most challenging new product development and introduction problems. More than 850 companies use ENOVIA MatrixOne solutions to drive business value and gain a competitive advantage, including industry leaders such as BAE Systems, Bosch, Comau, General Electric, Honda, Johnson Controls, Linde AG, NCR, New Balance, Nokia, Philips, Porsche, Procter & Gamble, REI, Sony Ericsson, STMicroelectronics and Toshiba. ENOVIA MatrixOne www.matrixone.com is headquartered in Lowell, Massachusetts, with locations throughout North America, Europe and Asia-Pacific.

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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