



ENOVIA Engineering Central

Product Objective

ENOVIA® Engineering Central™ eliminates the significant process and data communication barriers that exist between mechanical, electronics, and software engineering disciplines within the enterprise and the product supply chain.

Product Overview

Economic and competitive pressures are causing companies to transition rapidly to a DABA (“Design Anywhere, Build Anywhere”) business model. As technology evolves, products are becoming more complex and encompass more electronic and software content to differentiate them. Companies need to 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.

ENOVIA Engineering Central creates a competitive advantage by addressing key DABA business challenges including:

- Improved communication and collaboration with global development teams comprised of internal and external resources
- Bill-of-material (BOM) management capabilities to provide a single enterprise-wide definition of software, electronic and mechanical product information
- Global product development and change processes that provide the right information to the right users at the right time

Product Highlights

ENOVIA Engineering Central provides a “single version of the truth” by consolidating and managing all the engineering data and processes in one enterprise solution. Key features and capabilities include:

Improved Development Team Communication and Collaboration

Global teams comprised of internal and external resources need to share ideas and participate in development business processes globally. ENOVIA Engineering Central is built upon the ENOVIA platform, which provides collaboration capabilities including supplier security, formal and ad hoc process support, file sharing and distribution.

Part and Bill of Material Management

ENOVIA Engineering Central provides global development teams with a single, persistent definition of product Engineering Bills of Material (EBOMs). This definition reduces data errors and time delays. It also provides advanced configuration traceability, which enables users to plan, manage and track changes to specific sets of customer product units.

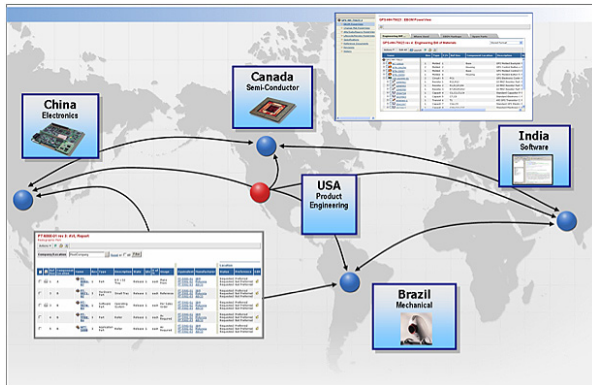
Users can structure EBOMS for even the most complex products with thousands of parts organized across many levels of hierarchy. The EBOM assembly structure automatically updates when new component revisions are released. An integrated structure browser allows users to navigate and edit multiple levels easily. Comprehensive EBOM editing capabilities include the ability to copy parts to and from existing assemblies, and replace, add, remove, and re-sequence parts in the BOM. Mass change operations automate complex EBOM changes that affect many parent assemblies. Differences between EBOMs can be listed in a detailed text format or an intuitive highlighted side-by-side format.

Key Customer Benefits

- Consolidate part design content from multiple engineering systems and tools by providing a single definition of the EBOM.
- Leverage the skills and knowledge of the enterprise and supply chain through the institutionalization of cross-functional product development and engineering change processes.
- Decrease product costs by enabling component engineers to qualify and manage purchased parts from multiple suppliers on a local or global basis.
- Make improved product development decisions with analysis reports that quickly identify component usage, highlight differences between assemblies, and summarize design changes over time.
- Improve communication and reduce data errors internally and with electronic contract manufacturers by defining the EBOM with location specific preferred suppliers and component.
- Reduce manufacturing downtime and quality issues by creating a list of engineering approved alternate or substitute parts for use by manufacturing instead of the primary engineering part.
- Decrease purchasing delays and errors by providing a quantity roll up of parts from a multi-level EBOM.



Product Highlights (continued)



ENOVIA Engineering Central also supports preparing an EBOM for manufacturing. Users can define the EBOM with location specific preferred suppliers and component parts and provide a list of engineering approved “alternate” or “substitute” parts that can be used by manufacturing instead of the primary engineering part. Purchasing can obtain a roll up of parts from a multi-level EBOM and execution systems can be populated automatically with EBOM data using optional ENOVIA integrations to most leading ERP systems.

Technical Document Management

ENOVIA Engineering Central can manage any kind of documentation used to define parts and bills-of-material. In addition, ENOVIA Engineering Central works seamlessly with ENOVIA® Designer Central™ in order to make Computer-Aided-Design (CAD) models available in the context of the BOM. This provides consolidated document and BOM views independent of the authoring tools used.

Product Development Change Processes

ENOVIA Engineering Central is delivered with engineering “best practices” from the experience of some of the world’s

largest manufacturing companies. These best practices enable standard and repeatable global engineering processes including an Engineering Change Request (ECR) process which is used to qualify, analyze, review and approve change requests for released parts, assemblies and technical documentation. The ECR process insures that a common process is followed and the right level of analysis and oversight is employed so that only “approved” changes are implemented thus reducing the quantity and time associated with implementing engineering changes.

ENOVIA Engineering Central provides flexibility to split one or many ECRs over one or many Engineering Change Orders (ECOs) for implementation. The ECO process includes the ability to configure ECO approval and notification templates. When used with optional ERP integrations, the ECO release process automatically updates the associated ERP system(s) to keep engineering and operations in synch. This automatic synchronization process eliminates redundant, error prone data entry operations which would otherwise be required to synchronize this information manually.

ENOVIA Engineering Central also supports parallel change processes. Multiple engineering changes that have common affected parts can be evaluated in parallel and implemented in any order. This capability addresses a business problem known as “ECO stacking.” A traditional ECO process forces customers to implement pending changes to a common affected item in the order in which the changes are raised. Often times there is a business need for the ECO implementation order to be different than the raised order. The ability to handle parallel change processes addresses this significant business issue.

The Role of ENOVIA V6 and PLM 2.0

ENOVIA Engineering Central supports PLM 2.0, product lifecycle management online for everyone, and the ENOVIA V6 values: global collaboration innovation, single PLM platform for intellectual property (IP) management, online creation and collaboration, ready to use PLM business processes, and lower cost of ownership.

About ENOVIA

ENOVIA is the recognized leader in delivering collaborative PLM solutions. We enable companies from a broad range of industries to dramatically accelerate innovation, time-to-market and revenue generation by collaboratively developing, building and managing products. Our solutions facilitate the sharing of concepts, content and context across product lifecycles and throughout value chains of employees, customers, suppliers and partners.

ENOVIA collaborative PLM solutions help global enterprises bring together people, processes, content and systems to achieve a compelling competitive advantage. Our interoperable solutions unify and streamline processes across the product lifecycle, enabling companies to easily and cost-effectively work on projects within and outside of their enterprises. Our adaptable, scalable technology is built to accommodate the ever-changing marketplace.

About Dassault Systèmes

As world leader in 3D and Product Lifecycle Management (PLM) solutions, the Dassault Systèmes group brings value to more than 90,000 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 life cycle of products from conception to maintenance. Our offering includes integrated PLM solutions for product development (CATIA®, DELMIA®, ENOVIA®, SMARTEAM®), mainstream product 3D design tools (SolidWorks®), 3D components (Spatial/ACIS®) and SIMULIA®, DS’ open scientific platform for realistic simulation. Dassault Systèmes is listed on the Euronext Paris (#13065, DSY.PA) stock exchange. For more information, visit 3ds.com.



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