



ENOVIA Engineering Configuration Central

Product Overview

ENOVIA® Engineering Configuration Central™ provides the ability to plan, create, and modify a configured engineering bill of materials (EBOM) that defines the “as-designed” engineering view, for specific sets of customer product units. The software enables product planners as well as design, quality, and manufacturing engineers to analyze and validate that all units delivered have been built to the proper engineering specifications. ENOVIA Engineering Configuration Central significantly reduces the non-value added efforts of redundant BOM data entry, correction, and synchronization resulting from fragmented processes and systems. The net result is improved product delivery accuracy and product quality, leading to reduced service costs.

ENOVIA® Engineering Configuration Central™ creates a competitive advantage by addressing key Configuration Management business challenges including:

- Improved communication and collaboration with global development teams comprised of internal and external resources
- Integrated bill-of-material management capabilities to provide a single enterprise wide solution to manage complex BOMs and Product Structures
- Common global product development and change processes which insure consistent change approval, notification, implementation and traceability

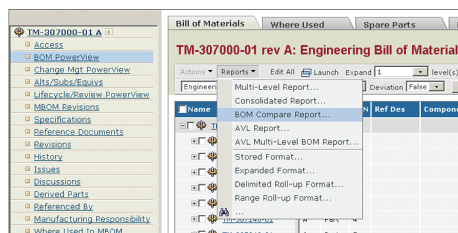
Product Highlights

ENOVIA Engineering Configuration Central includes these features and capabilities:

Part and Bill of Material Management

ENOVIA Engineering Configuration Central provides global development teams with a single, persistent definition of product 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. This capability, known as “product unit effectivity,” has been incorporated into EBOM creation, navigation, review and change management. This advanced configuration management capability is used in conjunction with other high volume configuration management schemes such as “latest released revision” part effectivity in order to better support re-use of lower level un-configured assemblies and equipment provided by external suppliers.

Users can structure EBOMS for complex products with thousands of parts organized across many levels of hierarchy. An integrated structure browser allows users to easily navigate and edit multiple EBOM levels. EBOM filters, such as product unit range filtering, provide dynamic views of EBOM configurations of interest. 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 EBOMs
- Leverage the skills and knowledge of the enterprise and supply chain through the institutionalization of cross-functional product development and engineering change processes
- Make improved product development decisions with analysis reports that quickly identify component usage, highlight differences between assemblies, and summarize design changes over time
- 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



Technical Document Management

ENOVIA Engineering Configuration Central can manage any kind of technical product documentation used to define parts and bills-of-material. In addition, ENOVIA Engineering Configuration Central works seamlessly with ENOVIA® VPM Central™ and ENOVIA® Designer Central™ in order to make CAD models available in the context of the bill-of-material. This provides consolidated document and bill-of-material views independent of the authoring.

Product Development Change Processes

ENOVIA Engineering Configuration 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 Configuration Central provides flexibility to split one or many ECRs over one or many Engineering Change

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.



For additional information, contact us at:
Dassault Systèmes Enovia Corp. 900 Chelmsford Street, Lowell, Massachusetts 01851
978 442 2500 • ENOVIA.com • 3DS.com

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 manually synchronize this information.

ENOVIA Engineering Configuration Central supports parallel change processes. Multiple engineering changes that have common affected parts can be evaluated in parallel. The ECO dependency feature automatically creates release dependencies between ECOs that need to be released in sequence. The result is an optimized set of pending changes that allow ECOs with no dependencies to be released in any order and those with dependencies to be released in a specific order.

ENOVIA Engineering Configuration Central has capabilities to dynamically compute groups of ECOs that have common product unit effectivity ranges. This is referred to as “mod stacking.” The mod stack information is presented to the user when assigning ECO effectivity so the ECO can be assigned to existing design solution applied to other ECOs. This minimizes the number of unique design solutions and modifications for a given product.

| Level | Name | Part | Type | P/N | Description | State | Op | U of M | Usage | Name | Part | Type | P/N | Description | State | Op | U of M | Usage |
|-------|------|-------------|------|-----|----------------------|--------|----|--------|----------|------|-------------|------|-----|----------------------|--------|----|--------|----------|
| 1 | HT | 30302010.01 | Part | 1 | Console Assembly | Create | EA | EA | Stand... | HT | 30302010.01 | Part | 1 | Console Assembly | Create | EA | EA | Stand... |
| 2 | HT | 30302010.01 | Part | 4 | Front-roller work... | Create | EA | EA | Stand... | HT | 30302010.01 | Part | 4 | Front-roller work... | Create | EA | EA | Stand... |

Engineers are able to use this information to analyze how many unique sets of changes exist for a given product serial number. When changes are made, they can also be assigned to specific serial numbers to better control diversity across all product serial numbers.

The Role of ENOVIA V6 and PLM 2.0

ENOVIA Engineering Configuration 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.